



TREATme: Findings from a European network on individualised psychotherapy for young people

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What is TREATme?

- TREATme = European Network on Individualized Psychotherapy Treatment of Young People with Mental Disorders
- COST Action CA16102 (31/03/2017 to 30/09/2021)
 - Final Assessment Report is published on COST website: https://www.cost.eu/actions/CA16102/
 - → Work continues as TREATme Network







Aims of the Network

- To establish a sustainable European multidisciplinary researcher network focusing on individualized psychotherapy for young people with mental disorders
- Review the state of the art and identify putative specific markers and mechanisms
 of change in different psychotherapy modalities, as well as suitable psychotherapy
 process and treatment measures, and study designs
- Promote collaborative funding applications and meet societal challenges connected to mental health







Working groups

- Working Group 1: Specific Markers (Predictors/moderators)
- Working Group 2: Mechanisms of Change (Mediators)
- Working Group 3: Age Customized Process and Treatment Measures
- Working Group 4: Age customized research designs
- Working Group 5: Dissemination of Results and Communication with Stakeholders







Dissemination channels

- TREATme website: https://www.treat-me.eu/
- TREATme Social Networks:
 - Research Gate: https://www.researchgate.net/project/European-Network-on-Individualized-Psychotherapy-Treatment-of-Young-People-with-Mental-Disorders-TREATme
 - Facebook: https://www.facebook.com/TreatMeEU
 - Twitter: https://twitter.com/TreatMeEU
 - YouTube: https://youtu.be







Socio-demographic predictors and moderators of outcome of psychotherapeutic interventions for mental disorders in young people:

a systematic review

TREATme – Working Group 1 / Stig Poulsen
9th EU-SPR Chapter Meeting
Rome, September 24, 2022



Main objective of WG1 and overall study design

- Identify studies reporting predictors and moderators of outcome of psychotherapy for mental disorders in young people
- Systematic search for outcome studies of youth psychotherapy within specific psychiatric disorders + manual selection of studies investigating predictors and moderators





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Greece	Iliana Liakea (student)
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Italy	Erminio Spadaro



Socio-demographic predictors of outcome of youth psychotherapy

- Existing systematic reviews indicate that sociodemographic variables are in general not significantly associated with treatment outcome and that findings are generally inconclusive (de Haan et al., 2013; Ginsburg et al., 2008; Kunas et al., 2021; Nilsen et al., 2013)
- Ethnicity is a possible exception since certain studies indicate that it would be important to adapt depression treatments to better match the needs of ethnic minorities (Nilsen et al., 2013)

Aim of the present study

- To provide an overview of the existing evidence for the predictive and moderating role of sociodemographic variables on the outcome of psychotherapy for young people across specific mental disorders
- Data derived from the database provided by the general review of predictors and moderators of outcome of youth psychotherapy

Predictors and Moderators of treatment outcome

- Predictors of outcome: Non-specific prognostic baseline characteristics indicating which patients are harder to treat and may require more intensive treatments, regardless of treatment approach and modality
- Moderators of outcome: Baseline characteristics, which have an interactive effect with treatment condition on treatment outcome, i.e., indicate, which particular interventions are most effective with particular subpopulations

(Kraemer, Wilson, Fairburn & Agras, 2002)

General choices for the review

- Databases
 - PubMed
 - PsycINFO
- Study types
 - All clinical trials:
 - RCT's
 - Non-randomized controlled studies
 - Observational (pre-post) studies

- Age
 - 12 to 30 (Adolescents and young adults)
- Treatments
 - Numerous types of psychotherapeutic interventions listed



Specific choices made: disorder groups

All disorder groups had a general search string (treatments + age + study type) + a disorder specific search string

- Anxiety disorders
- Depressive disorders
- Bipolar disorders
- Psychotic disorders
- Eating disorders
- Personality disorders

- Conduct disorders
- Substance use disorders
- ADHD
- Autism



Search (final update by April 22, 2021)

Diagnosis	Retrieved
Mood disorders	5741
Anxiety, OCD & trauma	3326
Substance use	2612
Conduct	1565
Psychosis	1450
Eating	1125
Personality	697
ADHD	605
Autism spectrum	464



- Researchers were divided into pairs by different disorder groups and rated the papers independently
- Consensus between the researchers before proceeding to next step



- Title and abstract screening
 - Paper included if it:
 - 1. **Disorder:** includes patients with the specified disorder for each search (depression, anxiety etc.)
 - 2. Intervention: presents a psychosocial intervention program for that disorder (depression, anxiety etc.) of any duration & orientation
 - **3. Study type**: presents an outcome study published in peer-reviewed journals
 - **4. Participants**: age range: 12 30 years
 - 5. Language: at least title and abstract is in English



- Full-text screening
 - Paper included if 1-5 is met and:
 - 6. Participants' clinical status: All participants are diagnosed with a clinical disorder or at least have a high level of symptoms on at least one relevant self-report measure (above the agreed-upon cut-off point for that measure)
 - 7. Assessment points: Pre-treatment (compulsory), Post-treatment (compulsory), and Follow-up (not compulsory).

- Identification of predictor / moderator studies
 - Paper included if:
 - 8. Predictors and/or moderators: all relevant predictor / moderator variables are assessed before the treatment and the paper explicitly displays at least one statistical analysis concerning predictors & moderators



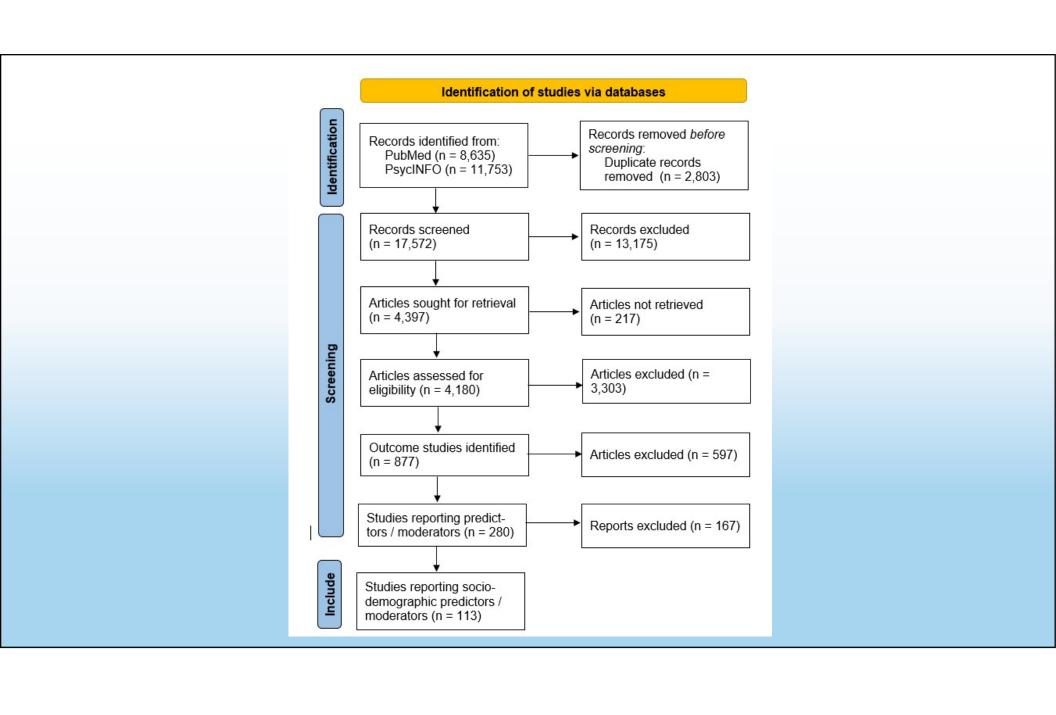




Data extraction in paper with moderators / predictors

- Article information (authors, journal etc.)
- Sample information (sample size, diagnosis, age, gender etc.)
- Design (randomization?, comparison group?)
- Treatment (approach, duration)
- Predictors / moderators (variable, type of statistical analysis)
- Risk of bias assessment (e.g., did the analysis test a hypothesis specified a priori?)





Sociodemographic	Disorder group								
variable	MDD	Anxiety	Eating	SUD	PD	ASD	ADHD	Psychosis	Total
Age	4 / 18	0/5	4/19	7 / 25	1/3	1/2	0/4	0/1	17 / 77
Gender	4.5 / 21	0/5	2/7	6.5 / 28	-	0 /2	0/4	0/2	13 / 69
Ethnicity	6 / 15	0/1	0/6	5/21	1/1	0/1	0/1	-	12 / 46
Education	0/1	-	0/1	4/6	-	-	0/1	0/2	4/11
SES	2/9	0/2	0/2	2/2	0/1	-	0/1	0/1	4 / 18
Family constellation	1/6	-	2/10	0/4	-	-	-	0/1	3/21
Work status	-	-	-	-	-	-	-	0/1	0/1
School type	-	0/1	-	-	-	-	-	-	0/1
Accommodation status	-	-	-	2/3	-	-	-	-	2/3
Parents' age	-	-	0/2	-	-	-	-	-	0/2
Parents' education	0/1	0/1	1/4	1/1	-	-	0/2	-	2/9
History of traumatic events	4/7	-	-	1/3	1/1	-	-	-	6/11
Forensic history	-	-	-	2/8	-	-	-	-	2/8
Referral to treatment	1/3	0/1		2/4					3/8
Social support	-	-	-	1/1	-	-	-	-	1/1
Distance to treatment	-	0/1	-	-	-	-	-	-	0/1
Sociodemographic adversity	-	0/1	-	-	-	-	-	-	0/1
Sexual orientation	-	-	-	0/1	-	-	-	-	0/1
Total	22.5 / 81	0/18	9/51	33.5 / 107	3/6	1/5	0/13	0/8	69 / 289





Results

- Overall: 113 individual studies reporting a total of 289 analyses of the relationship between a sociodemographic predictor/moderator and one or several outcome variables
- Of the 289 predictors/moderators studied, 69 were found to be significantly related to at least one outcome variable
- The most studied predictors/moderators were age, gender and ethnicity. Many predictors were studied in less than ten studies – several even only in one
- The disorder groups with most predictor / moderator studies were substance use disorders (107), mood disorders (81) and eating disorders (51).
- Several disorder groups had only few predictor / moderator studies with few significant results:
 - Within anxiety disorders, only 18 predictor / moderator analyses from 6 studies were conducted, and none of them were found significant.
 - For ADHD, 5 studies (investigating 13 predictors/moderators) were identified with no significant findings.
 - For psychosis, autism and personality disorders, only very few (< 10) predictors / moderators were studied – none were significant, except for one where age was a significant predictor of outcome for autism.







Results

- None of the sociodemographic predictors were found clearly significant: Only about 23% of all the studies reported a significant effect for any of the tested predictors – for age the rate was 22% of the studies, for gender 19% and for ethnicity 26%.
- In most diagnosis groups, significant findings pointed in opposite directions
- In most studies with significant findings, several nonsignificant findings were reported as well







Potentially consistent findings

Across disorders:

- Ethnicity: Mixed results, but indications that belonging to an ethnic minority group (non-white/Hispanic) may predict poorer outcomes across disorders
- History of traumatic events: History of traumatic events (e.g. abduction, physical/sexual/emotional abuse) may predict poorer treatment outcomes

Specifically for SUD:

- Gender: Males may have slightly better results in psychotherapy for SUD than females
- Education: Higher education / attending school may predict better outcomes for SUD (but not in other disorders)
- Accommodation status: More stable accommodation may predict better outcome for SUD (only 3 studies)
- Social support: Having a mentor predicted better outcome for SUD (only one study)







Discussion

- Certain possible predictors found, in particular in studies of SUD (male gender, higher education, stable accommodation, social support)
- Ethnic minority status and history of trauma may predict poorer outcome across disorders
- Findings are highly tentative
- Many more non-significant than significant findings
- Many studies lack specific hypotheses about predictor-outcome relationships
- Several studies only report bivariate associations between predictors and outcome (i.e., not controlling for shared variance with other predictors)







Limitations

- Many studies underpowered to investigate predictor and particularly moderator effects
- Findings are still preliminary
- Meta-analysis was not performed
- Subgroup-analyses of studies with higher N and adequate approaches to data analysis not yet conducted







Mediators of outcome in youth psychotherapy: The work of TREATMe WG2

Yianna Ioannou (on behalf of WG2)

WG 2 Leader: Svenja Taubner

Vice-leaders: Erkki Heinonen & Sonja Protic

9TH EU SPR Chapter Meeting Rome, Italy September 2022

TREATme WG2

19 active members from 12 countries

Svenja Taubner (Leader) Germany	Erkki Heinonen (Vice- leader) Finland	Sonja Protic (Vice-leader) Serbia
Asta Adler	Andrea Saliba	Patricia Moreno-Peral
Lithuania	Malta	Spain
Catarina Pinheiro Mota	Célia Sales	Rasa Barkauskiene
Portugal	Portugal	Lithuania
Jan Ivar Røssberg Norway	Dina Di Giacomo Italy	Stefanie Schmidt Switzerland
José Miguel Mestre	Filipa Mucha Vieira	Yianna Ioannou
Spain	Portugal	Cyprus
Sonia Conejo-Céron	Jana Volkert	Tjasa Stepisnik
Spain	Germany	Slovenia
Margarida Rangel Henriques Portugal		

Our objectives:

- To exchange knowledge and research experience, in order to identify putative mechanisms of change in youth psychotherapy.
- To review the evidence base available.
- To suggest what kind of research change mechanisms is needed in order to advance individualized treatment for youth.

Source: https://www.treat-me.eu/working-groups/working-group-2/

TREATme WG2





How does therapy produce change?

- Mechanisms of change define causal relationships between therapeutic change and psychological interventions; i.e. what about the therapy process leads to particular outcomes?
- Mechanisms of change are explanatory concepts about how therapy produces change, which rely on identifying specific mediators, i.e. variables that explain changes between an intervention and a therapeutic outcome statistically.

How can we assess and identify mediators?

Set of criteria proposed by Kazdin (2007):

- (a) Conduct sufficiently powered randomised clinical trials.
- (b) Use valid and reliable measures for mediators that are sensitive to change.
- (c) Apply a process design in which changes of the mediator temporally precede changes in therapeutic outcome and the mediator variable is measured repeatedly.
- (d) Compare mediators that are theory-driven with nonspecific mediators.
- (e) Apply different dosages to prove that a stronger mediator-change leads to more therapeutic changes.

*Source: Kazdin, A. E. (2007). Mediators and mechanisms of change in psychotherapy research. *Annu. Rev. Clin. Psychol.*, *3*, 1-27.

Our work so far...

Taubner, S., Ioannou, Y., Saliba, A., Sales, C. M. D., Volkert, J., Protić, S., Adler, A., Barkauskiene, R., Conejo-Cerón, S., Di Giacomo, D., Mestre, J. M., Moreno-Peral, P., Mucha Vieira, F., Pinheiro Mota, C., Rangel Henriques, M., Røssberg, J. I., Stepisnik Perdih, T., Schmidt, S. J., Zetti, M., Ulberg, R., Heinonen, E. (2022). **Mediators and theories of change in psychotherapy with adolescents: a systematic review**. (under review)

Mestre, J. M., Taubner, S., Mota, C. P., Rangel Henriques, M., Saliba, A., Heinonen, E., Ramos, S., Moreno-Peral, P., Volkert, J., Adler, A., Barkauskiene, R., Conejo-Cerón, S., Di Giacomo, D., Ioannou, Y., Mucha Vieira, F., Røssberg, J. I., Sales, C. M. D., Schmidt, S. J., Stepisnik Perdih, T., Ulberg, R. and Protic´, S. (2022). **Theories of Change and Mediators of Psychotherapy Effectiveness in Adolescents With Externalising Behaviours: A Systematic Review**. Frontiers in Psychiatry, 12, 730921. doi: 10.3389/fpsyt.2021.730921

Volkert, J., Taubner, S., Barkauskiene, R., Mestre, J. M., Sales, C. M. D., Thiele, V., Saliba, A., Protic', S., Adler, A., Conejo-Cerón, S., Di Giacomo, D., Ioannou, Y., Moreno-Peral, P., Vieira, F. M., Mota, C. P., Raleva, M., Rangel Santos Henriques, M. I., Røssberg, J. I., Schmidt, S. J., Perdih, T. S., Ulberg, R., and Heinonen, E. (2021). **Mediators and Theories of Change in Psychotherapy for Young People With Personality Disorders: A Systematic Review Protocol**. Frontiers in Psychology, 12, 703095. 10.3389/fpsyg.2021.703095

Taubner, S., Saliba, A., Heinonen, E., Protić, S., Volkert, J., Adler, A., Barkauskiene, R., Conejo Cerón, S., Di Giacomo, D., Ioannou, Y., Mestre, J. M., Moreno-Peral, P., Mucha Vieira, F., Mota, C. P., Raleva, M., Rangel Santos Henriques, M. I., Røssberg, J. I., Schmidt, S. J., Stepišnik Perdih, T., Ulberg, R., Sales, C. M. D. (2021). **Mediators and theories of change in psychotherapy with adolescents: a systematic review protocol**. BMJ Open, 11, e042411. 10.1136/bmjopen-2020-042411

Conejo-Cerón, S., Taubner, S., Heinonen, E., Adler, A., Barkauskiene, R., Di Giacomo, D., Ioannou, Y., Mestre, J. M., Henriques, M. R., Mota, C. P., Protic´, S., Raleva, M., Vieira, F. M., Røssberg, J. I., Sales, C. M. D., Saliba, A., Schmidt, S.J., Perdih, T.S., Ulberg, R., Volkert, J. and Moreno-Peral, P. (2021). Mediators in Psychological Treatments for Anxiety and Depression in Adolescents and Young People: A Protocol of a Systematic Review. Frontiers in Psychology, 12, 708436. doi: 10.3389/fpsyg.2021.708436

Mediators and theories of change in the psychotherapy of adolescents

Aims and objectives:

- 1. To identify which mediators and theories of change have been studied in the psychotherapy of adolescents.
- 2. To identify if there are adolescence-, disorder- or treatment-specific mediators.
- 3. To critically evaluate the methodological approach of the current research data available on mediators in psychotherapy for adolescents and the robustness of the evidence.

Open access Protocol

BMJ Open Mediators and theories of change in psychotherapy with adolescents: a systematic review protocol

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Jana Volkert ¹, Asta Adler, Rasa Barkauskiene ¹, Sonia Conejo Cerón ¹, Rasa Dina Di Giacomo ¹, Yianna Ioannou ¹, Jose M Mestre ¹, In Patricia Moreno-Peral ¹, Filipa Mucha Vieira, Catarina Pinheiro Mota, In Patricia Moreno-Peral ¹, Rasa Barkauskiene ¹, Asta Adler, Rasa Barkauskiene ¹, Sonia Conejo Cerón ¹, Asta Adler, Rasa Barkauskiene ¹, Sonia Conejo Cerón ¹, Sonia Conejo Cerón ¹, Rasa Barkauskiene ¹, Rasa Barkauskiene ¹, Sonia Conejo Cerón ¹, Rasa Barkauskiene ¹, Rasa Bark

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▶ Prepublication history and additional materials for this paper is available online. To view these files, please visit the journal online (http://dx.doi. org/10.1136/bmjopen-2020-042411).

ABSTRACT

Introduction Approximately 75% of mental disorders emerge before the age of 25 years but less than half receive appropriate treatment. Little is known about the mechanisms underlying the therapeutic change of adolescents in psychotherapy. The 'European Network of Individualised Psychotherapy Treatment of Young People with Mental Disorders', funded by the European Cooperation in Science and Technology, will conduct the first systematic review to summarise the existing knowledge on mediators and theories of change in psychotherapy for adolescents.

Method A systematic review will be conducted, conforming to the reporting guidelines of the Preferred

Strengths and limitations of this study

- Review aims at identifying underlying mechanisms of change in the process of psychotherapy for adolescents.
- Reviewers are from a European multidisciplinary researcher network with researchers and clinicians from 30 countries.
- First comprehensive overview of mediators in psychotherapy carried out with adolescents.
- Broad inclusion criteria increase external validity but limits the possibility of causal conclusions including non-randomised controlled trials studies, it is likely not feasible to estimate apprenated effect sizes for

Eligibility criteria for studies

Studies were included if:

- They were randomized-control trials from any georgraphical location, written in English and published from inception until March 23, 2022.
- They reported an intervention aimed at treating psychological problems of adolescents in any setting.
- They included participants with a mean age between 10-19 years.
- They assessed a mediator using a statistical test of mediation.

Keyword	Search term	Approx number of PsycINFO results
mediator	mediat* OR mediation* OR "mediating effect*" OR "indirect effect*" OR "mediator effect*" OR "mechanism of change" OR "mechanism* of change" OR "working mechanisms" OR "working mechanism" OR "process" of "process" of psychotherap mechanisms" OR "process of therap OR "process of psychotherap OR "psychotherap process" OR "therap process of "psychotherap" OR "psychotherap process" OR "process of "psychotherap" OR "therap process outcome OR "psychotherap process of therap process of therap or "process of therap or "psychotherap or "psychotherap or "psychotherap process" OR "psychotherap or "psychotherap" or "psychotherap or "psychotherap" or "psychotherap" or "psychotherap or "psychotherap"	290,992
sample: age groups	MA "adolescent" OR "adolescent*" OR "emerging adulthood" OR "young" OR "juvenile" OR "early adulthood" OR "young adult" OR "subadult" OR "immature" OR "adolescen*" OR "puberty" OR "pubertal" OR "puberal" OR DE "Emerging Adulthood" OR DE "Puberty" OR DE "Adolescent Development" OR DE "Adolescent Characteristics" OR DE "Adult Development"	790,880
general string for therapy	psychotherap* OR "therap*" OR counseling OR "counselling" OR "psychological treatment*" OR "psychosocial treatment" OR "psychological intervention*" OR "psychological intervention*" OR "psychosocial intervention*" OR psychoeducation OR "group therap*" OR "family therap*" OR "general psychiatric management" OR GPM OR MA "Mind-Body Therapies" OR "supportive psychotherapy" OR DE "Psychotherapy" OR DE "Psychoeducation" OR DE "Psychosocial Readjustment" OR DE "Psychotherapeutic" OR DE "Group Psychotherapy" OR DE "Family Therapy" OR DE "Creative Arts Therapy" OR DE "Mind Body Therapy" OR DE "Dance Therapy" OR DE "Art Therapy" OR DE "Play Therapy" OR DE "Supportive Psychotherapy"	823,779
well-validated therapies	"cbt" OR "cognitive therapy" OR "behavior therapies" OR "behavior therapy" OR "behavioral treatment" OR "behavioral treatment" OR "exposure and response prevention" OR "exposure with response prevention" OR (exposure AND "response prevention") OR REBT OR "problem solving therapy" OR "interpersonal therapy" OR "mindfulness" OR psychodynamic OR "psychodynamic therapy" OR DE psychoanalysis OR "psychoanalysis" OR "psychoanalytic" OR "mentalization based therapy" OR "mentalization based therapy" OR "mentalization based treatment" OR "MBT" OR "transference focused therapy" OR "transference focused psychotherapy" OR "metacognitive treatment" OR "Acceptance and Commitment Therapy" OR "dialectical behavior therapy" OR "Behavior therapy" OR "Schema Therapy" OR "Schema-focused Therapy" OR "Systematic Desensitization" OR "Exposure therapy" OR MA relaxation OR "relaxation" OR DE biofeedback, psychology OR ("biofeedback" AND "psychology") OR "psychology biofeedback" OR "biofeedback") OR DE hypnosis OR "hypnosis" OR "Attention bias-modification" OR DE "Cognitive Behavior Therapy" OR DE "Behavior Therapy" OR DE "Behavioral Activation System" OR DE "Exposure Therapy" OR DE "Interpersonal Psychotherapy" OR DE "Mindfulness" OR DE "Psychodynamic OR DE Psychotherapy" OR DE "Psychodynamics" OR DE "Relaxation Therapy"	334,649
disorder-specific treatments	(exposure AND "response prevention") OR DE "Cognitive Behavior Therapy" OR DE"Cognitive Behaviour Therapy" OR CBT OR "cognitive therap*" OR "behavior therap*" OR "behaviour therap*" OR "behavioural treatment" OR "behavioral activation" OR "exposure and response prevention" OR "exposure with response prevention OR "Acceptance and Commitment Therapy" OR "ACT" OR "dialectical behavior therapy" OR "dialectical behaviour therapy" OR DBT OR "Schema-focused therapy" OR "schema therapy" OR DE "Cognitive Behavior Therapy" OR DE "Behavior Therapy" OR DE "Behavioral Activation System" OR DE "Exposure Therapy" OR DE "Acceptance and Commitment Therapy" OR DE "Dialectical Behavior Therapy "OR DE "Schema Therapy"	84,233

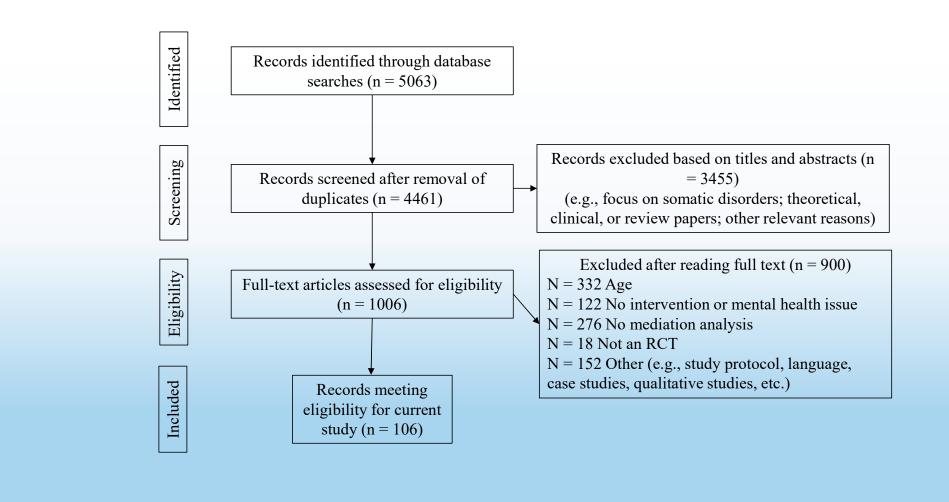
Screening process

- Abstracts were divided and reviewed by 10 pairs of researchers.
- The full text of the potentially eligible studies were reviewed.
- Disagreements were discussed by the pair, and a third reviewer was involved if consensus could not be reached.
- Additional quality check by fourth reviewer (by assessing the eligibility of every fifth excluded study).

Data extraction process

- A standardised form was used to extract the information about:
 - Study setting
 - Study population and participant demographics
 - Baseline characteristics
 - Details of the intervention and control conditions
 - Study methodology
 - Outcomes
 - Times of measurement
 - Assessed mediators
 - Type of mediation analysis
 - Information for assessment of study quality
 - Information for assessment of the risk of bias (using the Mixed Methods Appraisal Tool).

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2950 Anxiet ANX 18.9 12 to 183.7 Timpa 2016 Effects of USA Anxiet CBT	IND F-2-F	Outpatient 1	1	Physical health		104	obsessive compulsive and hoarding symptoms	depressive symptoms	Reduction of A		anxiety sensit			Obses
3431 Anxiet ANX 11.5 12 to 252.1 Fjerme 2020 Therapis Norwal FRIEND CBT	IND F-2-F	Outpatient 10	10	not reported	NR	73	anxiety symptoms		Difference bet		-	Therapeutic A		anxiet
3515 Anxiet ANK 13.5 12 to 135.8 Kwok 2019 Integrat Honko Positi OTH	GRO F-2-F	Outpatient 8	8	no	No intervention	-	anxiety symptoms	hope, emotional competer	- Continue	COG	expectancies	and the same of the same of	yes	anxiet
3647 OCD OTH 12.8 12 to 158.6 Wolte 2018 Mediatin Nether Control CBT	IND F-2-F	Outpatient 16	16	None	No intervention		OCD symptoms		Dysfunctional	-	dysfunctional		No :	
2752 No spe ANK 19.9 NR 18-51 Smits 2008 Cognitive USA Exercis OTH	IND F-2-F	Outpatient 2	6		Waiting list / Ac		anxiety symptoms		anxiety sensit		anxiety sensit		YES	anxiet
671 Compl EXT 10.5 12 to 225 Dedds 2012 Outcome Austra Emotid SYS	IND; FAM F-2-F	Outpatient 4	4	TAU	Treatment as u		conduct problems, total difficulties (comprising conduct pro	olems, emotional symptoms	_		recognition an		no	
3649 Ansiet ANX 10.8 12 to 351.6 Wulet 2020 The impa USA Cognit C8T	IND F-2-F	Outpatient 14	14		Combined psyc		anxiety symptoms		Exposure com		engagement in			Anxiet
386 Deprei DEP 13 to 12 to 1NR Brent 1998 Predicto USA Cognit C8T	IND F-2-F	Outpatient 12 to			Active psycholo		depressive symptoms, presence of major depressive disorde	r, functional impairment	hopelessness		expectancies			depres
427 Depre DEP 32.5 (\$12 to \$46.1 Bruns 2018 Youth to USA Penn R C8T	GRO F-2-F	Outpatient 12	12	Penn Enhancer	Education / Pla	321	depressive symptoms		explanatory s	-	cognitive appr	Children's Attr	yes	depre:
594 Depre DEP 11.4(112 to 142 Compa 2010 Coping a USA Family CST	FAM; GRO F-2-F	Outpatient 24	12	self-study writt	Guided self-hel	111	depressive symptoms, general emotional distress (anxiety/d	changes in parenting	changes in ad	HEH	coping	behavioural	YES	CES-D.
753 Depre DEP 15.6 (112 to 177.8 Dietz 2014 Social pr USA Cognit CBT;	YS IND F-2-F	Outpatient 12 to	16 13.6(1.3)	nondirective su	Active psycholo	63	depressive symptoms, depression diagnosis		adolescent in	REL	interpersonal	Family Interac	yes	proble
970 Depre DEP 11 to 112 to 149 Fosco 2016 Preventi USA Family HUM	FAM F-2-F	Outpatient NR	3	school as usual	No intervention	386	depressive symptoms		family conflict	FAM	family function	Behavior Prob	YES	depres
1072 Depre DEP 17.5 (\$12 to \$56.2 Gladst 2014 Understa USA Comp C8T	IND ONLINE	Outpatient NR	14	CATCH-IT with p	Education	69	depression symptoms		automatic ne	COG	negative thou	The Automatic	yes	depres
1423 Degree DEP 14.36 12 to 154 Jacoba 2009 Dysfunct USA Cognit C8T	IND F-2-F	Outpatient 12	12	fluoxetine, a co	Pharmacothers	439	depression symptoms, suicidal thinking, perfectionism	general functioning	Dysfunctional	COG	dysfunctional	Dysfunctional	yes	depre
1536 Depre DEP 18.5 (3.12 to 187.9 Kauer 2012 Self-mon Austra Mobile EDU	IND ONLINE	Outpatient 2	28 (4 x day)	attention comp	Guided self-hel	114	depression, anxiety, stress, emotional self-awareness	rumination	Emotional self	EMO	recognition an	Emotional self	YES	deprei
1809 MDO DEP 14.6 (\$12 to \$54.4 Lewis 2009 The role (USA Cognit CBT	IND F-2-F	Outpatient 12	15 (up to)	Pharmacother	Pharmacothers	253	depresion symptoms	negative attitudes regardi	readiness to c	BDH	motivation for			depre
2486 Risk of DEP 14.8 (112 to 141.5 Andrey 2015 Depressi USA Behav INT	FAM F-2-F, ONLINE	Outpatient 12	6.3(3.4)	unclear (likely)	NR	82	depression symptoms	glycemic control	family process	FAM	family function	Conflict Behav	yes	depret
2747 Depre DEP 12 to 12 to 1NR Smith 2015 Compute Englan ComputeST	IND ONLINE	Outpatient 8	8	Waiting List	Waiting list	110	depression symptoms	anxiety symptoms; depres	ruminative th	COG	negative thou	Child Respons	YES	depres
2814 Major DEP 15.5 (\$12 to \$57 Stice # 2011 Relation USA Group C8T	GRO F-2-F	Outpatient 6	6	bibliotherapyo	Guided self-hel	253	depression symptoms	perceived social support	change in dep	OTH	outcome	16 items from	yès	social
2815 elevat DEP 15.6 (1 NR NR Stice el 2010 Testing n USA (1) cog C8T;	(8T; HI GRO F-2-F	Outpatient 6	NR.	Assessment-or	No intervention	341	depression symptoms, negative cognitions, pleasant activiti	es, emotional expression, lo	negative cogn	COG	negative thou	Automatic tho	yes	depres
312 High a OTH, A 14.48 12 to 160 Blake 2017 The SENS Austra Sleep \$C8T;		Outpatient 7	7	Study SENSE int	Active psycholo	123	sleep quality, anxiety symptoms		Presieep som		physical healt	PSAS-5 (Presied	YES	Global
313 High a OTH, A 14.48 12 to 160 Blake (2017 A cogniti Austra Sleep (CBT;		Outpatient 7	7		Active psycholo		social problems, attention problems, aggressive behavior	sleep	Sleep-onset-l		Physical Healt			
343 Irritab OTH 15.54 12 to 361 Bonne 2018 The role (Swede Expos) CBT	IND: FAM (inclus ONLINE	Outpatient 10	10	wait-list	Waiting list	101	gastrointestinal symptoms		avoidance bel		engagement is			decres
1104 no forr SUB, El 12.3 ICNA 50.8 Gonzal 2012 Random USA Bridge OTH	GRO; FAM F-2-F	Outpatient 9	11	a single 1.5 hou	Education	516, 100%	substance use, internalizing and externalizing symptoms	GPA and school disciplinar	Coping Efficac	BEH	coping	the 8-item Cod	yes	subtar
210 no fort SUB 16.7 (NNA 30 Barnet 2014 From cou USA Motive HUM	GRO; IND F-2-F and OT	Outpatient 36 to		-	Active psycholo		marijuana use		Percent Chang		motivation for			substa
1763 anore OTH 14.4 (\$12 to \$91 Le Gra 2012 Moderat USA Individ \$15; 0	TH IND F-2-F	Outpatient 32	32		Active psycholo		anorexia nervosa symptoms		-	COG	self-esteem/s			anore
2245 no for SUB 12 to 112 to 1NR OLear 2017 Process Canad Person CBT;	CONTRACTOR OF THE PARTY OF THE	Outpatient 2	2		No intervention		alcohol use	depression and anxiety sys	-	COG	self-esteem/s	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, which i		Depre
2258 No dia NR 14.5 (212 to 140 Orkibi 2017 In-sessid Israel Psycholium		Outpatient 16 to		Waiting list	Waiting list	13	Ioneliness, self-concept		cognitive-beh	T-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-	engagement id			Self-co
820 chroni EXT 14.9(1)12 to 30 Eddy el 2000 Family m USA Multi (\$15)5.0		Outpatient NR	NR NR	Group Care	Treatment as u	79	antisocial behaviors		Positive adult		Family Function			Antiso
88 ansiet ANX, T 18.8 (312 to 382.9 Allan d 2015 Direct an USA Ansiet C8T;		D Outpatient 1	1	Physical Health		82	PTSD symptoms	anxiety sensitivity	general Anxie		anxiety sensit		,	Posttr
715 Extern EXT 16.02 12 to 326.56 Dekov 2012 Within-Id Nether Multis SYS	FAM F-2-F		24 Ino me NR		Treatment as u		externalising symptoms		parenting sen		parental resou			extern
1276 Sexua EXT 14.6 (\$12 to \$2.4 Henge 2009 Mediato USA Multis SYS	FAM F-2-F	Outpatient 28.4	28	-	Treatment as u		antisocial behavior	youth sexual deviance and	-		parenting skill			Antiso
1277 Seriou EXT 15.2 (1NR 23 Hence 1992 Family of USA Multis SYS	FAM F-2-F	Outpatient 13.4	NR.		Treatment as u		antisocial behavior, incarceration		family cohesio		Family Functio			



What we found:

Study characteristics: Disorder type

Disorder Type	No. of studies
Substance use	25
Other (identified in 1 to 3 studies; e.g. ED, OCD, ADHD, IBS, etc.)	22
Depression	20 (1 mixed with anxiety)
Anxiety	19 (1 mixed with depression)
Externalizing d/o	14
PTSD	8

What we found: Study characteristics: Intervention

Type of Intervention	No. of studies
Cognitive-behavioral therapies	53
Humanistic approaches	23
Systemic therapies	16
Educational therapies	14
Third-wave/mindfulness-based perspectives	5
Integrative approaches	5
Other	3
Interpersonal therapy	2
Psychodynamic therapy	1

What we found: Study characteristics: Setting

Treatment Setting	No. of studies
Individual therapy	41
Individual therapy + family sessions	22
Individual therapy + group sessions and/ or family therapy	5
Group therapy	24
Group therapy + family and/or individual sessions	7
Family therapy	12
E-mental health	10
Inpatient treatment	0

What we found:

Study characteristics: Statistical tests of mediation

Mediation models	No. of studies
Regression model	43
Structural equation modeling	20
Hierarchical linear modeling	14
Path models	13
General linear mixed model	6
Growth curve analysis	4
Multilevel regression analysis	4
Cross lagged panel analysis	2

Qualitative content analysis of mediators (Total number of mediation tests: 252)

Type of mediator	No. of studies
Cognitive mediators	80
Family-related mediators	54
Behavioral mediators	48
Therapy-related mediators	34
Relational mediators	23
Emotional mediators	13
Biological mediators	0

Mediator subtypes

Cognitive mediators	No. of studies (80)
Dysfunctional beliefs and attitudes	13
Negative thoughts	12
Anxiety sensitivity	11
Expectancies	11
Cognitive appraisals	10
Self-esteem/self-efficacy	7
Post-traumatic cognitions	7
Metacognitive skills	6
Problem solving	4

Mediator subtypes

Family mediators	No. of studies (52)
Family functioning	22
Parenting skills	19
Parental burden	6
Parental resources	2

Behavioral mediators	No. of studies (48)
Coping	12
Engagement in positive behaviors	8
Impulse control	8
Motivation to change	7
Engagement in therapy activities	7
Physical health behaviors	6

Mediator subtypes

Therapy-related mediators	No. of studies (34)
Outcome	12
Therapeutic alliance	10
Technique	8
Treatment duration	4
Relational mediators	No. of studies (23)
Peer influence	14
Interpersonal skills	7
Attachment	2
Emotional mediators	No. of studies (13)
Recognition and expression of emotions	7
Emotion regulation	3
Loneliness	2

What we found: Measurement Instruments

- 181 different measures were used to assess, often the same mediators!
- Most were self-report measures.
- Only the following measures were used with some consistency:
 - Anxiety Sensitivity Index-3
 - Children's Postraumatic Cognitions Inventory
 - Symptom Checklist
 - Therapeutic Alliance Scale for Children

Interpretation of the findings...

 Narrative synthesis of the results was performed using an adaptation of the Best Evidence Synthesis Rating System (BESRS) (Moreno-Peral et al., 2020).

We evaluated:

- (a) whether the same mediator-construct was assessed for the same disorder category (in at least three studies)
- (b) the statistically significant association criteria for mediation, and
- (c) the methodological quality of each of the studies (good/ satisfactory/ unsatisfactory)

What we learned...

- Only one study fulfilled all 6 criteria outlined by Kazdin (2007) for the rigorous assessment and identification of potential mediators!
- There was no strong evidence for any mediator type in any diagnosis group.
- The evidence base for different mediator types differed notably across diagnoses.

What we learned...

- For anxiety disorders, moderate evidence emerged only for cognitive mediators (the same applied to PTSD—classified in the prior DSM-IV among the anxiety disorders).
 - BUT the majority of these studies were rated as having unsatisfactory quality and none were of good quality.
- Studies of depression showed moderate evidence for almost all mediator types, i.e., behavioral, cognitive, family, relational, and those classified as 'therapy-related'.
 - Each of these mediator types was supported by at least one good-quality study.

What we learned...

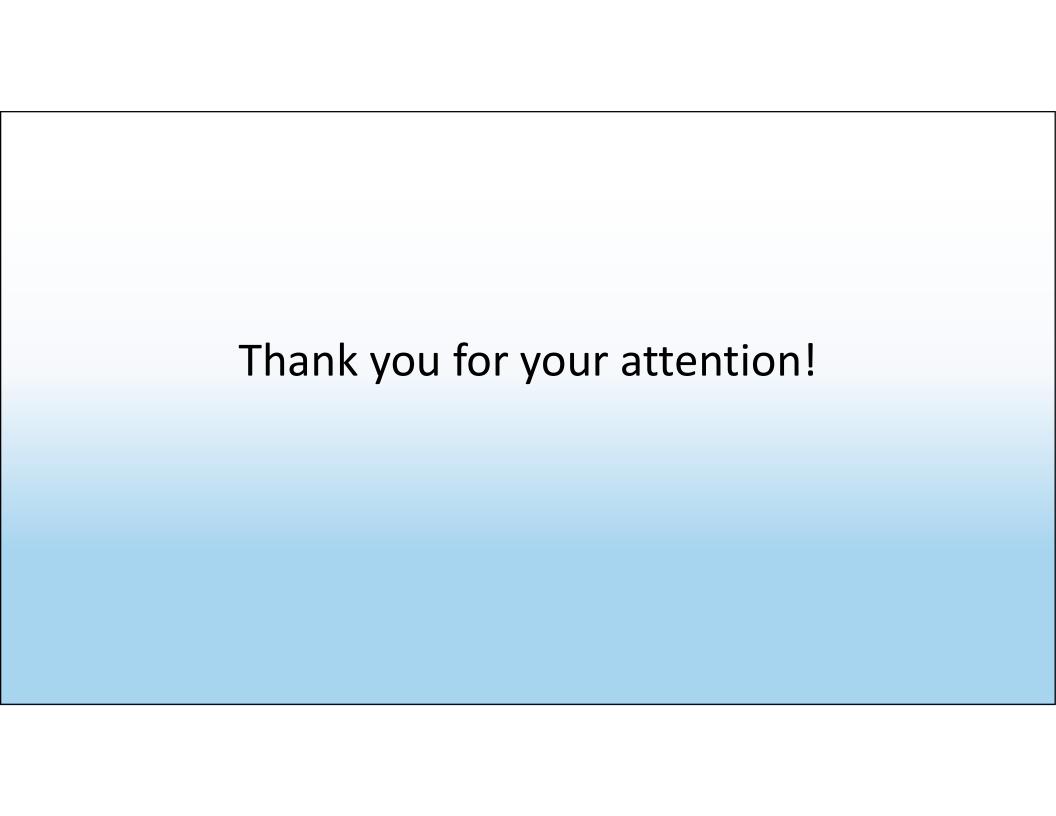
- For externalizing disorders, family and relational mediators were the most frequently studied—they received moderate evidence and were each supported by at least one good-quality study.
 - BUT other mediator types remained virtually unstudied.
- Several mediator types were investigated in substance abuse disorders and received moderate evidence (behavioral, cognitive, family, 'therapy-related')
 - They all had at least one good-quality or several satisfactory-quality studies.
- For almost all diagnoses, the number of studies on particular

In conclusion:

- There is little consensus on the central change mechanisms or related mediator measures between or even within different therapeutic approaches, irrespective of diagnoses.
- Within each mediator category some mediators were identified to be promising for future investigations, irrespective of diagnosis or theoretical approach:
 - Cognitive: changes in negative thoughts, dysfunctional beliefs and metacognitive skills
 - Family-related: family functioning and parenting skills
 - Behavioral: successful engagement in therapy activities, increased impulse control.
 - Relational: changes in peer influence was promising but understudied.
- These may constitute transtheoretical and transdiagnostic candidate mediators of outcome in the psychotherapy of adolescents!

In conclusion...

- Adolescence-specific mediators were most commonly investigated.
- The majority of studied mediators were not disorder-specific.
- There was a tendency to mainly test change mechanisms of specific theoretical models without considering other possible change theories (researcher bias).
- Almost no study fulfilled all criteria for rigorously investigating mediation and only nine were classified with an overall good study quality.
- While bearing in mind the current limitations in study designs, methodological rigor and reporting, it appears reasonable to recommend age-specific change models for the psychological treatment of adolescents.







Working alliance in youth psychotherapy research: How should we measure it?

Fredrik Falkenstöm / WG3







The working group

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- Emma Motrico
- Camellia Hancheva
- Margarida Rangel
- Marcin Rzeszutek
- Nele De Witte
- Sibel Halfon
- Jana Volkert

- Nuno Ferreira
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- Nurka Pranjic
- Nina Petricevic
- Ela Tollkuci
- Sidse Arnfred
- Fredrik Falkenström







Why focus on measuremen

- Measurement may not be the 'coolest' research
- Foundation for all quantitative research
 - —Low reliability leads to biased results
 - —Validity problems lead to wrong interpretation



"Research performed with outcome measurement instruments of poor or unknown quality constitutes a waste of resources and is unethical. Unfortunately this practice is widespread." (Mokkink et al., 2018)



Age appropriate measurement

- Adolescence a period of transition psychologically, socially, and biologically
- Mental health problems increasing
- Identity formation vs role confusion
- Cognitive development; formal operations stage
- These issues may affect measurement
 - Reliability i.e. we can not assume that a measure that works for adults works for adolescents
 - What we want to measure? Different processes/outcomes may be important for adolescents compared to adults





The COSMIN system for evaluating the quality of measurement instruments

- COnsensus-based Standards for the selection of health Measurement
 Instruments
- Developed 2016 from Delphi study among 158 experts from 21 countries
- Comprehensive system for rating risk of bias in measurement studies and quality of measurement properties of instruments
- Originally developed for rating the quality of patient-rated outcome measures (PROMs)
- "The methodology can also be used for other types of measurement instruments /.../, but the methodology may need to be adapted for these other purposes." (Mokken et al., 2018)







The COSMIN system for evaluating the quality of measurement instruments

Areas for evaluation

- Content validity
- Structural validity
- Internal consistency
- Cross-cultural validity
- Measurement invariance

- Reliability
- Measurement error
- Criterion validity
- Construct validity
- Responsiveness
- Ratings should be summarized and rated according to a modified GRADE approach







Content validity

Studied using qualitative research (e.g., focus groups, individual interviews)

- Asking patient about relevance
- Asking patients about comprehensiveness
- Asking patients about comprehensibility
- Asking professionals about relevance
- Asking professionals about comprehensiveness

Are we doing this when developing psychotherapy research measures?







Quantitative measurement properties

- Structural validity
- Internal consistency
- Cross-cultural validity/ measurement invariance
- Reliability
- Measurement error
- Criterion validity

- Construct validity
 - Convergent validity
 - Discriminative validity
- Responsiveness
 - Criterion validity
 - Convergent validity
 - Discriminative validity







Aim

Review available measurement instruments for working alliance in youth psychotherapy







Working alliance measures for youth

- Age range: 12-19 (mean within, or age range within)
- Articles reporting any psychometric information
- Systematic search in Psychinfo, PubMed, Web of Science, and PsycArticles
- 4402 abstracts for screening (duplicates removed)
 - —Final inclusion: 7 self-report measures (11 papers) and 6 observer measures (10 papers)
 - —COSMIN rating almost finished
 - —All instruments except one developed for adults
 - —Quality of evidence in general low (e.g., content validity) to moderate (e.g., construct validity)







Reflections on the COSMIN system

- Not developed for psychotherapy process research
 - —Content validity of working alliance measures may not be possible to establish in the same way as e.g., measures of neck pain
- Psychotherapy researchers seldom study (or report) some psychometric information that is deemed important in COSMIN:
 - —Cross-cultural validity/measurement invariance
 - -Measurement error
 - —Responsiveness







Conclusions

- Psychotherapy researchers may need to do some adjustments to the COSMIN system to suit process measures
- Psychotherapy researchers should study the COSMIN system to learn more comprehensive instrument validation







Patient and public involvement in youth mental health research: A systematic review of impacts and practices

Julian Edbrooke-Childs Society for Psychotherapy Research Rome 2022



Patient and public involvement in youth mental health research: A systematic review of impacts and practices

Edbrooke-Childs, J., Martins, F., Alves, M., Carletto, S., Conejo-Cerón, S., Costa da Silva, L., Čuš, A., Edridge, C., Ferreira, N., Hancheva, C., Lima, E., Liverpool, S., Midgley, N., Moltrecht, B., Moreno-Peral, P., Morgan, N., Mortimer, R., Mota, C. P., Pietrabissa, G., Sousa, S., Ulberg, R., & Sales, C.



Patient and public involvement in youth mental health research: A systematic review of impacts and practices

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My Story and Me: Patient and public involvement in a story-telling intervention

Edbrooke-Childs, J., Crease, M., Labno, A., Lereya, S. T., Norton, S., Ravaccia, G., Abdinasir, K., Abel, K., Brooks, H., Bhui, K., English, C., Fonagy, P., Heslin, M., Lee, H., & Stewart, J.



My Story and Me: Patient and public involvement in a story-telling intervention

This project was funded by the National Institute for Health Research (NIHR) Public Health Research programme (NIHR135162) and will be published in full in XXX Journal; Vol. XX, No. XX. See the NIHR Journals Library website for further project information.



Key messages

- Patient and public involvement requires time, budget, training, support, and planning
- Identify what researchers and young people being involved would like from the experience, and how you can both best work together, at the outset
- Inclusive approaches to involving young people benefits collaboration and involvement of all team members



What is Patient and Public Involvement (PPI)?

- A process in which members of the public are actively involved in the research
- "research being carried out 'with' or 'by' members of the public rather than 'to', 'about' or 'for' them." ¹
- Experts by experience: patients, service users, members of the public, caregivers, or user representatives
- Increasing recognition of PPI by journals, funders, researchers, and policy
- People affected by knowledge should be involved in creating that knowledge



Why is Patient and Public Involvement important?

To make research more relevant ²⁻⁵:

- Asking the right research questions
- Meaningful research methods
- Wider and more relevant view when writing up results
- Increase inclusivity and credibility when disseminating findings
- Patient-centred research: we have an ethical obligation
- Empowering for those involved and gain experience of research



Research questions

- 1. What types of involvement are reported in youth mental health research?
- 2. What components of involvement are most frequently reported?
- 3. What are the barriers and facilitators to involvement?
- 4. What is a recent example of Patient and Public Involvement?

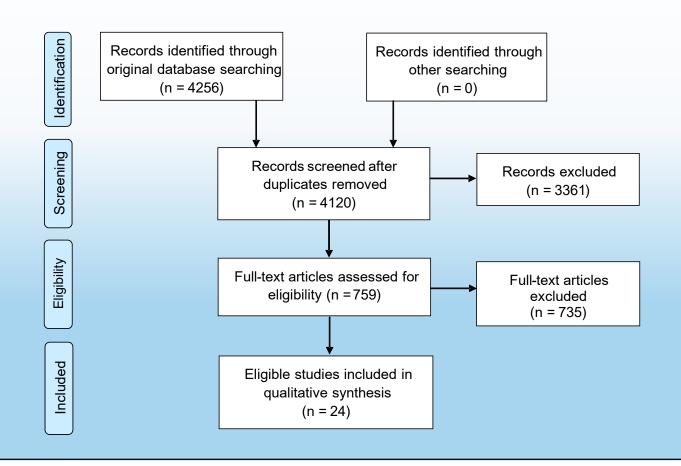


Systematic review methods

- 10 databases, January 2000 March 2020
- Updated searches in August 2022 and found 1,039 unique hits
- Included studies reporting PPI involving young people aged between 11 and
 20 years with lived experience of mental health difficulties or receiving support
- Excluded studies with participatory methods where young people were not involved in the design and delivery of the research
- Findings presented today are subject to change as they do not include the updated searches



Flow chart ⁶





What types of involvement are reported in youth mental health research?

- 3/24 reported being user-lead
- 17/24 reported collaborative PPI
 - Literature reviewing, identifying the research topic and questions,
 recruiting participants, collecting surveys or interviews/ focus groups
- 6/24 reported consultation PPI
 - Youth researcher steering group to inform decision making on research questions, deciding data collection methods, interpreting data



What components of involvement are most frequently reported?

- Developed 17 item reporting criteria with young people based on literature ⁷
- Mean criteria met = 7, median = 6.5, 6 studies met at least 10/17
- More often reported: mentioning PPI in the title/abstract, explaining why it was important, and how and at which stage of the project it was conducted
- Less often reported: descriptions of procedural aspects, setting goals and identifying support needs, and plans to keep young people updated with the impact of their involvement
- Tension with comprehensive reporting of PPI and journal requirements



What are the barriers and facilitators to involvement?

- Respectful relationships
- Sensitive approach (e.g., balancing recruitment of specific experiences vs.
 requiring young people to disclose experiences)
- Clear and open communications
- Insufficient resources, including researcher training
- Flexibility of involvement so it is inclusive of different needs and commitments
- Consistency of PPI group membership



What is a recent example of Patient and Public Involvement?

- Consultations when designing the study and applying for funding, paid peer researcher co-investigator, and young people advisory group
- Peer researcher involved from the outset
 - Core member of the research team (e.g., joined weekly meetings)
 - Attended Steering Group
 - Conducted one of the studies but involved in all three



What was the impact of Patient and Public Involvement?

- Informed the need for the study; e.g., lack of recognition of young women's voices and stories (e.g., distress marginalized)
- Inclusive approach to the study and prioritized marginalized groups
- Improved research methods (e.g., suggested topics ahead of interviews)
- Interpreted the results of the narrative analysis
- Critically and collaboratively challenged to ensure we were amplifying the voice of participants



What helped and hindered Patient and Public Involvement?

- Identified goals for participating and group agreement at the outset
- Feeding back impact and changes
- Sending materials in advances
- Live anonymous feedback in meetings
- More time explaining commitment at the outset for shared expectations
- Interviews were more sensitive than anticipated, so the team worked on how to manage and support involvement for all researchers
- Modelling open and transparent approach to the research



Key messages

- Patient and public involvement requires time, budget, training, support, and planning
- Identify what researchers and young people being involved would like from the experience, and how you can both best work together, at the outset
- Inclusive approaches to involving young people benefits collaboration and involvement of all team members



The child, adolescent, and family therapy research (CAFTR) specialist interest group

The **mission** of CAFTR is to support and promote research in the field of child, adolescent, and family therapy including parent-infant therapy.

The **CAFTR e-forum** (caftr@psychotherapyresearch.org) provides an online space for an exchange of ideas among members. There are over 200 members from different countries in the world.

E-forum includes the latest updates on members' research activities, discussions about research-related issues and opportunities for collaboration.

TO SIGN UP for the E-FORUM:

https://www.psychotherapyresearch.org/mpage/CAFTR-List

More information on CAFTR: https://www.psychotherapyresearch.org/page/SPRCAFTR
Questions? Please email sibel.halfon@bilgi.edu.tr or verareginaramires@gmail.com



References I

- 1. INVOLVE. (n.d.). What is public involvement in research? Retrieved from https://www.invo.org.uk/find-out-more/what-is-public-involvement-in-research-2/?print=print
- 2. Brett, J., Staniszewska, S., Mockford, C., Herron-Marx, S., Hughes, J., Tysall, C., & Suleman, R. (2014a). Mapping the impact of patient and public involvement on health and social care research: a systematic review. *Health Expect*, *17*(5), 637-650. doi:10.1111/j.1369-7625.2012.00795.x
- 3. Brett, J., Staniszewska, S., Mockford, C., Herron-Marx, S., Hughes, J., Tysall, C., & Suleman, R. (2014b). A systematic review of the impact of patient and public involvement on service users, researchers and communities. *Patient*, 7(4), 387-395. doi:10.1007/s40271-014-0065-0
- 4. Delbanco, T., Berwick, D. M., Boufford, J. I., Edgman-Levitan, S., Ollenschläger, G., Plamping, D., & Rockefeller, R. G. (2001). Healthcare in a land called PeoplePower: nothing about me without me. *Health Expect*, *4*(3), 144-150. doi:10.1046/j.1369-6513.2001.00145.x



References II

- 5. Wilson, P., Mathie, E., Keenan, J., McNeilly, E., Goodman, C., Howe, A., . . . Peckham, S. (2015). Health Services and Delivery Research. In *ReseArch with Patient and Public invOlvement: a RealisT evaluation the RAPPORT study*. Southampton (UK): NIHR Journals Library.
- 6. Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. PLOS Medicine 2021;18(3):e1003583. doi: 10.1371/journal.pmed.10035
- 7. Staniszewska, S., Brett, J., Simera, I., Seers, K., Mockford, C., Goodlad, S., . . . Tysall, C. (2017). GRIPP2 reporting checklists: tools to improve reporting of patient and public involvement in research. *BMJ*, 358, j3453. doi:10.1136/bmj.j3453