Appendix A: Search strategy

Original search: April 2019

Date of search: 06.04.19		
Database (via Ovid)	Records retrieved	
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to April 05, 2019	1258	
Embase Classic+Embase 1947 to 2019 April 05	1301	
PsycINFO 1806 to April Week 1 2019	441	
HMIC Health Management Information Consortium 1979 to January 2019	3	

MEDLINE; EMBASE; PSYCHINFO, HMIC (via Ovid)

- 1. randomized controlled trial.pt.
- 2. controlled clinical trial.pt.
- 3. randomized.ab.
- 4. placebo.ab.
- 5. clinical trials as topic.sh.
- 6. randomly.ab.
- 7. trial.ti.
- 8. 1 or 2 or 3 or 4 or 5 or 6 or 7
- 9. ((systematic adj review*) or meta analy* or metaanaly*).tw.
- 10. meta-analysis as topic/ or Meta-Analysis.pt.
- 11. 9 or 10
- 12. Epidemiologic studies/ or exp case control studies/ or exp cohort studies/ or Cross-sectional studies/
- 13. Case control.tw.
- 14. (cohort adj (study or studies)).tw.
- 15. Cohort analy\$.tw.
- 16. (observational adj (study or studies)).tw.
- 17. 12 or 13 or 14 or 15 or 16
- 18. 8 or 11 or 17
- 19. comment/ or editorial/ or letter/
- 20. 18 not 19
- 21. exp Ethnic Groups/
- 22. exp Minority Groups/
- 23. ("BME" or "BAME" or "black asian and minority ethnic" or "black and minority ethnic" or "ethnic minorit*" or "asian minorit*").tw.
- 24. Asian Continental Ancestry Group/ or African Continental Ancestry Group/ or European Continental Ancestry Group/ or African Americans/ or Asian Americans/ or Hispanic Americans/
- 25. gypsies/
- 26. Roma/
- 27. (traveller\$1 or Gypsies or Gypsy or Gipsy or Gipsies or Romany or Romanies or Romani or Romanis or Romanis
- 28. "Transients and Migrants"/
- 29. "Emigration and Immigration"/
- 30. "Emigrants and Immigrants"/
- 31. refugees/
- 32. (immigrant\$ or migrant\$ or asylum or refugee\$ or undocumented).ti,ab.
- 33. (displaced and (people or person\$1)).ti,ab.
- 34. (born adj2 overseas).ti,ab.
- 35. exp Psychotherapy/

- 36. ("mental health care" or "mental healthcare" or "mental health intervention*" or "mental health treatment" or "mental health support" or "psychological therap*" or "psychological intervention" or "psychology intervention" or "psychological treatment" or "psychology support" or "psychological support").tw.
 37. 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34
- 38. 35 or 36
- 39. 20 and 37 and 38
- 40. limit 39 to (humans and yr="1965 -Current")

Date of search: 07.04.19	
Database (via ProQuest)	Records retrieved
Assia 1 January 1965 to 6 April 2019	1083

ASSIA (via Proquest)

(MAINSUBJECT.EXACT.EXPLODE("Minority groups") OR MAINSUBJECT.EXACT.EXPLODE("Ethnic groups") OR TI,AB("Central Asian people") OR TI,AB("Asian Australian people") OR TI,AB("South East Asian American people") OR TI,AB("Asian American people") OR TI,AB("South East Asian people") OR TI,AB("East Asian people") OR TI,AB("Asian communities") OR TI,AB("Ugandan Asian people") OR TI,AB("Asian people") OR TI,AB("Asian-Pacific American people") OR TI,AB("South Asian people") OR TI,AB("Australasian people") OR TI,AB("Eurasian people") OR TI,AB("South Asian communities") OR TI,AB("Black Asian American people") OR TI,AB("Gypsies") OR TI,AB("Immigrants") OR TI,AB("Migrants") OR TI,AB("Emigrants") OR TI,AB("Refugees") OR TI,AB("Asylum") OR TI,AB("Immigration") OR ti,ab("BAME" OR "BME" OR "black asian and minority ethnic" OR "black and minority ethnic" OR ethnic minorit* OR asian minorit* OR minorit* OR travel?er*1 OR Gypsies OR Gypsy OR Gipsies OR Romany OR Romani OR Romanis OR Rromanis OR Roma OR immigrant*1 OR migrant*1 OR refugee*1 OR undocumented OR displaced people OR displaced person*1 OR born overseas)) AND (MAINSUBJECT.EXACT.EXPLODE("Psychotherapy") OR ti,ab(psychotherapy OR cognitive behavio?ral therapy OR "CBT" OR mental health care OR mental health OR mental healthcare OR mental health intervention OR mental health treatment OR mental health support OR psychological therap* OR psychological intervention OR psychology intervention OR psychological treatment OR psychology support OR psychological support)) AND (TI,AB("Meta-analysis") OR TI,AB("Cohort analysis") OR TI,AB("Cross-sectional studies") OR TI,AB("Observational research") OR TI,AB("Randomized controlled trials") OR TI,AB("Systematic reviews") OR ti,ab(systematic NEAR/4 review*) OR meta analy* OR metaanaly* OR randomized controlled trial OR controlled clinical trial OR randomized OR placebo OR randomly OR trial OR Case control OR (cohort NEAR/4 (study OR studies)) OR Cohort analy OR (Follow up NEAR/4 (study OR studies)) OR (observational NEAR/4 (study OR studies))) AND PEER(yes) AND pd(19650101-20190406)

Date of search: 07.04.19	
Database (via EBSCO)	Records retrieved
CINAHL	721

CINAHL

#	Query	Limiters/Ex	Last Run Via	Results
S1	MH (MH "Minority Groups+") OR (MH	panders Search	Interface - EBSCOhost	133,338
51	"Ethnic Groups+")	modes -	Research Databases	133,330
		Boolean/Phr	Search Screen -	
		ase	Advanced Search Database - CINAHL	
			Plus	
S2	MW ethnic minorities OR MW (black,	Search	Interface - EBSCOhost	109,594
	asian and minority ethnic (bame)) OR	modes -	Research Databases Search Screen -	
	MW (bme or black minority ethnic or ethnic or african or caribbean) OR MW	Boolean/Phr ase	Advanced Search	
	asian american OR MW (african	use	Database - CINAHL	
	americans or black americans or blacks)		Plus	
	OR MW (hispanic or latino or latina or			
	mexican or central american or south			
	american or hispanics or latin) OR MW (gypsy or roma or traveller) OR MW (
	migrants or immigrants or asylum seekers			
	or refugees) OR MW (emigration or			
	immigration or migration) OR MW			
S3	emigrants OR MW displaced persons (MH psychotherapy+)	Search	Interface - EBSCOhost	163,340
	(and positional psychological	modes -	Research Databases	100,010
		Boolean/Phr	Search Screen -	
		ase	Advanced Search	
			Database - CINAHL Plus	
S4	MW "psychotherapy" OR "cognitive	Search	Interface - EBSCOhost	149,052
	behavio#ral therapy" OR "CBT" OR	modes -	Research Databases	
	"mental health care" OR "mental health" OR "mental healthcare" OR "mental health	Boolean/Phr ase	Search Screen - Advanced Search	
	intervention" OR "mental health	asc	Database - CINAHL	
	treatment" OR "mental health support" OR		Plus	
	"psychological therap?" OR			
	"psychological intervention" OR "psychology intervention" OR			
	"psychological treatment" OR "psychology			
	support" OR "psychological support"			
S5	MW (randomized controlled trials or rtc or	Search	Interface - EBSCOhost	163,891
	randomised control trials) OR MW (modes - Boolean/Phr	Research Databases Search Screen -	
	meta-analysis or systematic review) OR MW cohort design study OR MW	ase Boolean/Pnr	Advanced Search	
	observational research		Database - CINAHL	
			Plus	
S6	MW "systematic review*" OR "meta	Search	Interface - EBSCOhost	235,668
	analy*" OR "metaanaly*" OR "randomized controlled trial" OR	modes - Boolean/Phr	Research Databases Search Screen -	
	"controlled clinical trial" OR	ase	Advanced Search	
	"randomized" OR "placebo" OR		Database - CINAHL	
	"randomly" OR "trial" OR "Case control"		Plus	
	OR "cohort stud*" OR "Cohort analy*"			

	OR "Follow up stud*" OR "observational stud*"			
S7	S1 OR S2	Search modes - Boolean/Phr ase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus	157,262
S8	S3 OR S4	Search modes - Boolean/Phr ase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus	271,573
S9	S5 OR S6	Search modes - Boolean/Phr ase	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus	235,668
S10	S7 AND S8 AND S9	Limiters - Published Date: 19650101- 20190431; Human Search modes - Boolean/Phr	Interface - EBSCOhost Research Databases Search Screen - Advanced Search Database - CINAHL Plus	721

Date of search: 29.04.19	
Database (via Wiley)	Records retrieved
CENTRAL	877

CENTRAL (via Wiley)

- ID Search
- #1 MeSH descriptor: [Ethnic Groups] explode all trees
- #2 MeSH descriptor: [Minority Groups] explode all trees
- #3 MeSH descriptor: [Asian Continental Ancestry Group] this term only
- #4 MeSH descriptor: [African Continental Ancestry Group] this term only
 #5 MeSH descriptor: [European Continental Ancestry Group] this term only
- #6 MeSH descriptor: [African Americans] this term only
- #7 MeSH descriptor: [Asian Americans] this term only
- #8 MeSH descriptor: [Hispanic Americans] this term only
- #9 MeSH descriptor: [Roma] this term only
- #10 MeSH descriptor: [Transients and Migrants] this term only
- #11 MeSH descriptor: [Emigration and Immigration] this term only
- #12 MeSH descriptor: [Emigrants and Immigrants] this term only
- #13 MeSH descriptor: [Refugees] this term only
- #14 ("BAME"):ti,ab,kw OR ("BME"):ti,ab,kw OR ("black asian and minority ethnic"):ti,ab,kw OR ("black and minority ethnic"):ti,ab,kw OR ("minority group"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #15 ("traveller"):ti,ab,kw OR ("travellers"):ti,ab,kw OR ("Gypsies"):ti,ab,kw OR ("Gypsy"):ti,ab,kw OR ("Romany"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #16 ("displaced people"):ti,ab,kw OR ("displaced person"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #17 ("refugees"):ti,ab,kw OR ("asylum"):ti,ab,kw OR ("undocumented"):ti,ab,kw OR ("immigrant"):ti,ab,kw OR ("migrant"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #18 MeSH descriptor: [Psychotherapy] explode all trees
- #19 ("mental health care"):ti,ab,kw OR ("mental healthcare"):ti,ab,kw OR ("mental health intervention"):ti,ab,kw OR ("mental health treatment"):ti,ab,kw OR ("mental health support"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #20 ("psychology intervention"):ti,ab,kw OR ("psychological treatment"):ti,ab,kw OR ("psychological therapies"):ti,ab,kw OR ("psychology support"):ti,ab,kw OR ("psychological support"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #21 ("psychological therapy"):ti,ab,kw OR ("psychological therapies"):ti,ab,kw OR ("psychological intervention"):ti,ab,kw OR ("psychology intervention"):ti,ab,kw OR ("psychological treatment"):ti,ab,kw (Word variations have been searched) with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #22 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 #0R #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #23 #18 OR #19 OR #20 OR #21 with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials
- #24 #22 AND #23 with Publication Year from 1965 to 2019, with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Trials

Date of search: 29.04.20	
Database (via Wiley)	Records retrieved

CDSR (via Wiley)

- ID Search
- #1 MeSH descriptor: [Ethnic Groups] explode all trees
- #2 MeSH descriptor: [Minority Groups] explode all trees
- #3 MeSH descriptor: [Asian Continental Ancestry Group] this term only
- #4 MeSH descriptor: [African Continental Ancestry Group] this term only
- #5 MeSH descriptor: [European Continental Ancestry Group] this term only
- #6 MeSH descriptor: [African Americans] this term only
- #7 MeSH descriptor: [Asian Americans] this term only
- #8 MeSH descriptor: [Hispanic Americans] explode all trees
- #9 MeSH descriptor: [Roma] this term only
- #10 MeSH descriptor: [Transients and Migrants] this term only
- #11 MeSH descriptor: [Emigration and Immigration] this term only
- #12 MeSH descriptor: [Emigrants and Immigrants] explode all trees
- #13 MeSH descriptor: [Refugees] explode all trees
- #14 ("BAME"):ti,ab,kw OR ("BME"):ti,ab,kw OR ("black asian and minority ethnic"):ti,ab,kw OR ("black and minority ethnic"):ti,ab,kw OR ("minority group"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #15 ("traveller"):ti,ab,kw OR ("travellers"):ti,ab,kw OR ("Gypsies"):ti,ab,kw OR ("Gypsy"):ti,ab,kw OR ("Romany"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #16 ("displaced people"):ti,ab,kw OR ("displaced person"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #17 ("refugees"):ti,ab,kw OR ("asylum"):ti,ab,kw OR ("undocumented"):ti,ab,kw OR ("immigrant"):ti,ab,kw OR ("migrant"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #18 MeSH descriptor: [Psychotherapy] explode all trees
- #19 ("mental health care"):ti,ab,kw OR ("mental healthcare"):ti,ab,kw OR ("mental health intervention"):ti,ab,kw OR ("mental health treatment"):ti,ab,kw OR ("mental health support"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #20 ("psychology intervention"):ti,ab,kw OR ("psychological treatment"):ti,ab,kw OR ("psychological therapies"):ti,ab,kw OR ("psychology support"):ti,ab,kw OR ("psychological support"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #21 ("psychological therapy"):ti,ab,kw OR ("psychological therapies"):ti,ab,kw OR ("psychological intervention"):ti,ab,kw OR ("psychology intervention"):ti,ab,kw OR ("psychological treatment"):ti,ab,kw with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #22 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 #OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #23 #18 OR #19 OR #20 OR #21 with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)
- #24 #22 AND #23 with Cochrane Library publication date Between Jan 1965 and Apr 2019, in Cochrane Reviews (Word variations have been searched)

Update search results: June 2020

Date of search: 30.06.20		
Database (via Ovid)	Records retrieved	
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to June 29, 2020	112	
Embase Classic+Embase 1947 to 2020 June 29	305	
PsycINFO 1806 to June Week 4 2020	46	
HMIC Health Management Information Consortium 1979 to May 2020	5	

Date of search: 30.06.20	
Database (via ProQuest)	Records retrieved
Assia 7 April 2019 to 30 June 2020	86

Date of search: 30.06.20	
Database (via EBSCO)	Records retrieved
CINAHL	140

Date of search: 30.06.20	
Database (via Wiley)	Records retrieved
CENTRAL	8

Date of search: 30.06.20	
Database (via Wiley)	Records retrieved
CDSR	1

Update search results: December 2020

Date of search: 11.12.20							
Database (via Ovid)	Records retrieved						
Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to December 10 2020	45						
Embase Classic+Embase 1947 to 2020 December 10	206						
PsycINFO 1806 to November Week 5 2020	32						
HMIC Health Management Information Consortium 1979 to November 2020	0						

Date of search: 11.12.20	
Database (via ProQuest)	Records retrieved
Assia 30 June 2020 to 11 December 2020	47

Date of search: 11.12.20	
Database (via EBSCO)	Records retrieved
CINAHL	42

Date of search: 11.12.20	
Database (via Wiley)	Records retrieved
CENTRAL	0

Date of search: 11.12.20	
Database (via Wiley)	Records retrieved
CDSR	0

Appendix B: Supplementary detail of typology development

Included here is a previous iteration of the conceptual typology, where different terms were used to classify adaptations. Detail on the evolution of terms is provided, including reasons why these were re-organised and modified by the authors:

Table B.1: A previous iteration of the conceptual typology

	Culturally-specific		Culturally-informed
	Therapeutic delivery	Content	Organisational
Common factors	Therapeutic relationship Alliance; Empathy; Agreement of treatment goals; Expectations of treatment; Collection of patient feedback	Acceptability and appropriateness Treatment structure; Education; Preparation of the patient	
sac	Training for provider/facilitator Staff or professional; Layperson or community member	Cultural Culturally relevant terms of reference; Modified materials/resources; Culturally-sensitive language; Emphasis on cultural norms/expectations; 'Culturally sensitive', 'culturally congruent', 'cultural emphasis', 'cultural attunement', culturally- responsive', 'culturally tailored'	Location of treatment Care provided at home; Care provided in the community; Care provided in non-healthcare setting
Specific adaptation types	Language translation (delivery) Interpreter or bilingual provider	Language translation (content) Translated materials/resources	Medium used to provide treatment Face to face Telephone Online or mobile app Group treatment
Specif	Provider of treatment Ethnic matching; Layperson; Community leader (e.g. religious leader)	Religious/faith-based adaptations Modified materials or resources; Use of religious texts, doctrine or guidance; Presence or support from a	Time or length of intervention Extended or shortened intervention or session length; Time of day
		religious leader or official	Method of access Rapid or accelerated access; Access route (e.g. via alternative to standard route)

Treatment-specific adaptations (to interventions provided) were originally coined 'culturally specific' to capture that both content and therapist (facilitator/provider) adaptations. The conceptualisation behind this was that treatment-specific adaptations were more likely to be directly influenced by an appeal to the target group's culture. Upon peer review, it became clear that the term was confusing and did not accurately reflect our intentions, nor the adaptations to which we were intending to refer.

• Therapist-related adaptations were originally termed 'therapeutic delivery' adaptations. Both of these terms would be acceptable, but we wanted to make it clear that these adaptations were as a

- direct result of the therapist/provider/facilitator, including both their demographics, competence, training and behaviour.
- Content-related adaptations for consistency and clarity the '-related' term was added inline with the therapist-related term above.
- Organisation-specific adaptations (those at the organisation or service level) were initially coined
 'culturally-informed' to reflect the fact that adaptations included here refer to those that are
 informed by cultural knowledge and its interface with service delivery and design, yet are not
 always made as a direct response to specific cultural needs. As with the 'culturally-specific' term,
 it became clear upon peer review that the term was confusing and did not accurately reflect our
 intentions.
- 'Acceptability and appropriateness' was re-termed 'acceptability and suitability' as it was thought to better distinguish between what is meant by these two terms.
- 'Cultural' was expanded to refer to explicit cultural adaptations in order to clarify the types of adaptations included in this category. This is further elaborated in the review, with examples.

Appendix C: Study characteristics – primary studies *Table C.1: study characteristics of primary studies (K=88)*

Study ID	Study design	Target population	Adapted intervention	EBT upon which intervention is based/adapted from	Target condition(s)	Duration of treatment	Primary outcome measure(s)	RoB judgement
(Acarturk et al., 2015)	RCT	Refugees/Asylum seekers	Eye movement desensitization reprocessing (EMDR)	Eye movement desensitization reprocessing (EMDR)	PTSD; Depression	7 weeks	IES-R	Unclear
(Acarturk et al., 2016)	RCT	Refugees/Asylum seekers	Eye movement desensitization reprocessing (EMDR)	Eye movement desensitization reprocessing (EMDR)	PTSD; Depression	NR	НТО	Low risk
(Afuwape et al., 2010)	RCT	Black or mixed race	Cares of Life: rapid access	CBT; brief solution- focussed therapy	Anxiety; Depression	NR	GHQ-28	
(Alavi & Hirji, 2020)	RCT	Middle Eastern	eCBT (Microsoft PowerPoint)	CBT	Anxiety	12 weeks	BAI	
(Alegria et al., 2014)	RCT	Latinx	Engagement and Counselling for Latinos (ECLA; telephone or face to face)	CBT; care management	Depression	6-8 sessions	PHQ-9	
(Alegría et al., 2019)	RCT	Latinx	Integrated Intervention for Dual Problems and Early Action programme (IIDEA) CBT	CBT; Motivational Interviewing; Mindfulness	Mental health NOS	10-12 sessions	HSCL-20	
(An, Wang, Sun, & Zhang, 2020)	RCT	East Asian	Modified CBT (group)	СВТ	Anxiety	8 weeks	PTA scale	Low risk
(Ashing & Rosales, 2014)	RCT	Latinx	Telephonic intervention + survivorship booklet	CBT; Health-related quality of life intervention	Depression	8 sessions	CES-D	
(Bedoya et al., 2014)	RCT	Latinx	Culturally focussed psychiatric consultation (CFP)	CBT; Psychoeducation (multicomponent intervention)	Depression	2 sessions	QIDS-SR	

(Beeber et al., 2010)	RCT	Latinx	Advanced practice nurse- delivered, culturally tailored, in-home psychotherapy intervention	IPT	Depression	16 contacts/sessions	CES-D	Low risk
(Bernardi, Dahiya, & Jobson, 2019)	Pre-post	Refugees/asylum seekers	Modified cognitive processing therapy	Cognitive processing therapy	PTSD	12 sessions	PCL-5	
(Bernstein et al., 2016)	Non- randomised quasi experimental	East Asian	Enhanced Logo-Autobiography	Logotherapy	Depression	8 weeks	CES-D (Korean version)	
(Bolton et al., 2003)	Cluster RCT	Black or mixed race	Group IPT	IPT	Depression	16 weeks	HSCL (depression subscale)	
(Bonilla-Escobar et al., 2018)	RCT	Black or mixed race	Common elements treatment approach (CETA)	CBT	Depression; PTSS; Anxiety	12-14 sessions	TMHS	
(Bradley et al., 2006)	RCT	East Asian	Multiple family group therapy	СВТ	Schizophrenia	12 months (26 sessions)	BPRS	Low risk
(Cachelin et al., 2018)	RCT	Latinx	CBT-guided self help	CBT (CBT-guided self-help)	Eating disorder: binge eating	12 weeks	EDE (objective binge-eating episodes)	Low risk
(Cajanding, 2016)	RCT	East Asian	Nurse-led CBT	CBT	Depressive symptoms	12 weeks	CDS	Low risk
(Camacho et al., 2015)	Pre-post	Latinx	Problem solving therapy using the IMPACT model	CBT - Problem solving therapy	Depressive symptoms	NR	PHQ-9	
(Carter, Sbrocco, Gore, Marin, & Lewis, 2003)	RCT	Black or mixed race	Group Panic Control Therapy	CBT	Panic disorder	11 sessions	CSR (panic)	Low risk
(Chien, Leung, & Sk Chu, 2012)	RCT	East Asian	Nurse-led psychoeducation	Psychoeducation	First-episode mental illness	3-6 weeks (6 sessions)	BPRS	

(Choi et al., 2012)	RCT	East Asian	Internet CBT (Brighten your mood programme)	CBT (internet CBT)	Depression	8 weeks	BDI (Chinese version)	Unclear
(Choy & Lou, 2016)	RCT	East Asian	Instrumental Reminiscence Intervention -Hong Kong (IRI HK)	Reminiscence Intervention	Depressive symptoms	6 weeks	GDS-15 (Chinese version)	Low risk
(Collado, Castillo, Maero, Lejuez, & Macpherson, 2014)	Pre-post (stage 1)	Latinx	Behavioural activation (BA)	Behavioural activation (BA)	Depressive symptoms	10 sessions	BDI-II	
(Collado A., Calderon M., MacPherson L., & Lejuez C., 2016)	RCT	Latinx	Behavioural activation (BA)	Behavioural activation (BA)	Depression: Major Depressive Disorder	10 sessions	BDI-II	Low risk
(Comas-Díaz, 1981)	RCT	Latinx	Cognitive therapy	Cognitive therapy	Depressive symptoms	4 weeks	BDI	
(Cooper et al., 2013)	Cluster randomised trial	Black or mixed race	Patient-centred collaborative care	Collaborative care	Depression: Major Depressive Disorder	NR	CES-D	
(Dahne et al., 2019)	RCT	Latinx	¡Aptívate! (mobile app)	Behavioural activation (brief)	Depressive symptoms	8 weeks	BDI-II (Spanish Version)	Unclear
(de Graaff et al., 2020)	RCT	Refugees/Asylum seekers	Problem Management Plus	Problem Management Plus	MH NOS (transdiagnostic), Depression & Anxiety symptoms	6 weeks (5 sessions)	HCSL 25- depression subscale; HCSL 25- anxiety subscale	Low risk
(Drozdek, Kamperman, Bolwerk, Tol, & Kleber, 2012)	Cohort study (controlled comparison)	Refugees/Asylum seekers	Group therapy: Den Bosch model	CBT; Psychodynamic therapy	PTSD	12 months	HTQ PTSD scale 30	
(Dwight-Johnson et al., 2011)	RCT	Latinx	CBT (telephone)	CBT	Depression	8 sessions	PHQ-9	

(Feldman et al., 2016)	RCT	Latinx	Cognitive Behaviour Psychophysiological Therapy (CBPT)	Cognitive Behaviour Psychophysiological Therapy (CBPT)	Panic Disorder	8 weeks	PDSS	Low risk
(Gallagher- Thompson et al., 2007)	RCT	East Asian	(In-home behavioural management program) IHBMP	CBT	Depression; Stress	12 weeks	CES-D	Unclear
(Gallagher- Thompson, Gray, Dupart, Jimenez, & Thompson, 2008)	RCT	Latinx	Coping with caregiving (CWC)	CBT	Depressive symptoms	4 months	CES-D	
(Gallagher- Thompson et al., 2010)	RCT	East Asian	DVD: CBT skill training (self-help)	CBT	Depression; Stress	12 weeks	CES-D	Unclear
(Glueckauf et al., 2012)	Mixed methods (RCT reported)	Black or mixed race	Telephone CBT	CBT	Depression	12 weeks	CES-D	Unclear
(Gonyea, Lopez, & Velasquez, 2016)	RCT	Latinx	'Circulo de Cuidado' (CBT group intervention)	CBT	Depression; Anxiety	5 weeks (+ follow up coaching up to 12 weeks more)	CES-D (Spanish version); STAI-S (Spanish version)	Unclear
(Grote et al., 2009)	RCT	BME NOS	Enhanced brief IPT	IPT (brief)	Perinatal depression	3-6 months	EPDS	Low risk
(Habib, Dawood, Kingdon, & Naeem, 2015)	RCT	South Asian	Culturally adapted CBT for psychosis (CA-CBTp)	CBT (CBTp)	Schizophrenia	4-6 months	PANNS - general	Unclear
(Hahm et al., 2019)	RCT	East Asian	'AWARE'	CBT; Empowerment; Mindfulness	Depression	8 weeks	CES-D	Low risk
(Hahm et al., 2020)	Pre-post	East Asian; South Asian	'AWARE'	CBT; Empowerment; Mindfulness	Depression; Anxiety; PTSD	8 weeks	CESD-R; HADS-A; PCL-C	

(Heilemann, Pieters, Kehoe, & Yang, 2011)	Pre-post	Latinx	Motivational Interviewing + Schema Therapy (MIST)	CBT; Motivational interview; Schema therapy	Depression	8-16 weeks	BDI-II	
(Hendriks et al., 2020)	RCT	Black or mixed race	'Strong Minds'	Positive Psychology EBP	Depression; Anxiety	6 weeks	DASS-21	Low risk
(Himelhoch et al., 2011)	Pre-post	Black or mixed race	'Connect' (telephone CBT)	CBT	Depression	14 weeks	HAM-D	
(Hinton et al., 2004)	Randomised crossover trial	Refugees/asylum seekers; East Asian	CBT	CBT	PTSD; Panic Disorder	NR	HTQ	Unclear
(Hinton et al., 2005)	Randomised crossover trial	Refugees/asylum seekers; East Asian	CBT	CBT	PTSD; Panic Attacks (co morbid)	NR	CAPS	Unclear
(Hinton, Hofmann, Rivera, Otto, & Pollack, 2011)	RCT	Latinx	Culturally adapted CBT (CA-CBT)	CBT	PTSD	14 weeks	PTSD-CL	Unclear
(Hovey, Hurtado, & Seligman, 2014)	Pre-post	Latinx	CBT	CBT	Depression; stress	6 weeks	CES-D	
(Huey Jr & Pan, 2006)	RCT	East Asian	Culturally adapted One Session Treatment (OST)	One session-treatment (OST)	Phobia	1 session (once)	ADIS-IV (phobia subsection)	
(Hwang et al., 2015)	RCT	East Asian	Culturally adapted CBT (CA-CBT)	CBT	Depression	12 weeks	HAM-D	Low risk
(Interian, Allen, Gara, & Escobar, 2008)	Pre-post	Latinx	CBT	СВТ	Depression (MDD)	12 weeks	BDI (Spanish version)	
(Jones & Warner, 2011)	RCT	Black or mixed race	Claiming Your Connections (CYC)	Cognitive therapy (strengths-based framework)	Depression; Stress	10 weeks	CES-D	Low risk
(Kananian, Soltani, Hinton, & Stangier, 2020)	RCT	Refugees/asylum seekers	Culturally adapted CBT Plus	CBT	MH NOS	6 weeks (12 sessions)	GHQ-28	Low risk

(Kanter, Santiago- Rivera, Rusch, Busch, & West, 2010)	Open trial (treated as pre- post)	Latinx	Behavioural activation-Latino	Behavioural activation (BA)	Depression	12-20 weeks	BDI-II	
(Kanter et al., 2015)	RCT	Latinx	Behavioural activation-Latino	Behavioural activation (BA)	Depression	12 sessions (NOS)	HAM-D (Spanish version)	Low risk
(Karasz et al., 2015)	RCT	South Asian	The Action to Improve Self- esteem and Health through Asset building (ASHA)	СВТ	Depression	26 weeks (12 sessions)	PHQ-9	
(Kaltman, de Mendoza, Serrano, & Gonzales, 2016)	Pre-post	Latinx	'Latinas Saludables' ('healty latinas')	CBT; Behavioural activation; Motivational interview	Depression; PTSD	NR	PHQ-9; PTSD-CL	
(Kayrouz et al., 2015)	Pre-post	Middle Eastern	Arab Wellbeing Course (online)	CBT (iCBT)	Depression; Anxiety	8 weeks	PHQ-9; GAD-7	
(Knaevelsrud, Brand, Lange, Ruwaard, & Wagner, 2015)	RCT	Middle Eastern	iCBT	CBT (iCBT)	PTSD	5 weeks	PDS total score/overall	Low risk
(Koch, Ehring, & Liedl, 2020)	RCT	Refugees/asylum seekers	STARC	STARC	MH NOS (transdiagnostic)	14 weeks	GHQ-28	Low risk
(Kohn, Oden, Muñoz, Robinson, & Leavitt, 2002)	Quasi- experimental study	Black or mixed race	African American-CBT (AACBT; group)	СВТ	Depression (MDD)	16 weeks	BDI	
(Kruse, Joksimovic, Cavka, Woller, & Schmitz, 2009)	RCT	Refugees/asylum seekers	Trauma-Focussed Psychotherapy	CBT; Progressive muscle relaxation; Trauma- psychotherapy	PTSD	25 hours (over several weeks)	HTQ (PTSD subscale)	
(Laperriere et al., 2005)	RCT	BME NOS	Cognitive behavioural stress management/ expressive supportive therapy (CBSM+)	CBT	Depression	10 weeks	BDI	Unclear

(Leiler, Wasteson,	Dra nost	Defugees/esylum	'AMIN' (nevel poducational	Psychoeducation	MH NOS	5 weeks (6	RHS	T
Holmberg, & Bjärtå, 2020)	Pre-post	Refugees/asylum seekers	'AMIN' (psychoeducational group intervention)	rsychoeducation	MH NOS	sessions)	KIDS	
(Lindegaard et al., 2019)	RCT	Middle Eastern; Refugees/asylum seekers	iCBT	CBT	Depression	8 weeks	BDI-II	Low risk
(Lindegaard et al., 2020)	RCT	BME NOS; Refugees/asylum seekers	iCBT (self-help)	CBT	Depression	8 weeks	PHQ-9	Low risk
(Lovell et al., 2014)	RCT	BME NOS	Wellbeing intervention	CBT	Depression; Anxiety	16 weeks	CORE-OM	
(Matsumoto et al., 2020)	Pre-post	East Asian	CBT (video conference)	CBT	Anxiety	16 weeks	Y-BOCS	
(Meffert et al., 2014)	RCT	Refugees/asylum seekers; Black or mixed race	IPT	IPT	Depression; PTSD	3 weeks	HTQ	Unclear
(Miranda, Azocar, Organista, Dwyer, & Areane, 2003)	RCT	BME NOS	CBT + case management	CBT; case management	Depression	12 weeks	BDI	
(Muto, Hayes, & Jeffcoat, 2011)	RCT	East Asian	Acceptance and commitment therapy (ACT) bibliotherapy	Acceptance and commitment therapy (ACT) bibliotherapy	Depressive symptoms; Anxiety	8 weeks	GHQ-12	Low risk
(Naeem et al., 2014)	RCT	South Asian	Culturally adapted CBT self- help (CA-CBT-SH)	CBT	Depression	12 weeks	HADS (depression subscale)	Low risk
(Naeem et al., 2015)	RCT	South Asian	Culturally adapted CBT for psychosis (CA-CBTp)	CBT (CBTp)	Schizophrenia	4 months	PANNS (general)	Low risk
(Neuner et al., 2008)	Randomised controlled dissemination trial	Refugees/asylum seekers	Trauma counselling	Trauma counselling	PTSD	3 weeks	PDS	Low risk
(Pan, Huey, & Hernandez, 2011)	RCT	Black or mixed race	Culturally adapted One Session Treatment (OST)	One session-treatment (OST)	Phobia	1 session (once)	FSS-III	

(Piedra & Byoun, 2011)	Pre-post	Latinx	'Vida Alegre' (group manualized CBT)	CBT	Depression	10 weeks	CES-D (Spanish version)	
(Rathod et al., 2013)	RCT	BME NOS	Culturally adapted CBT for psychosis (CA-CBTp)	CBT (CBTp)	Schizophrenia	16-20 weeks	CPRS (total)	Low risk
(Razali, Hasanah, Aminah, & Subramaniam, 1998)	RCT	East Asian; Religious minority	Religious cultural psychotherapy	Cognitive therapy	Anxiety; Depression	6 months	HARS; HAM-D	Unclear
(Razali, Aminah, & Khan, 2002)	RCT	East Asian; Religious minority	Religious cultural psychotherapy	Cognitive therapy	Anxiety (generalised anxiety disorder)	6 months	HARS	Unclear
(Rosmarin, Pargament, Pirutinsky, & Mahoney, 2010)	RCT	Religious minority	Internet based Spiritually Integrated Treatment (SIT)	Psychotherapy	Anxiety	NR	PSWQ	Low risk
(Ryan, Maurer, Lengua, Duran, & Ornelas, 2018)	Pre-post	Latinx	'Amigas Latinas Motivando el Alma' (ALMA)	Mindfulness	Depression; Anxiety	5 weeks	PHQ-9 (Spanish version); GAD-7 (Spanish version)	
(Sander, Laugesen, Skammeritz, Mortensen, & Carlsson, 2019)	Retrospective cohort study	Refugees/asylum seekers	CBT (interpreter)	CBT	PTSD	16 sessions	HTQ	
(Scogin et al., 2007)	RCT	BME NOS	Home-based CBT	СВТ	Depressive symptoms; QoL	5.3 months (average)	SCL-R-90 (GSI)	Low risk
(Shaw, Ward, Pillai, & Hinton, 2018)	RCT	Refugees/asylum seekers; Middle Eastern	Culturally adapted CBT (CA-CBT)	CBT (CBT)	Depression & Anxiety; PTSD	8 weeks	HSCL-25 (depression subscale)	Unclear
(Shin & Lukens, 2002)	RCT	East Asian	Psychoeducation + Individual Supportive Therapy	Psychoeducation	Schizophrenia	10 weeks	BPRS total	Low risk

(So et al., 2015)	RCT	East Asian	Meta cognitive training for delusions (MCTd)	Meta cognitive training for delusions (MCTd)	Schizophrenia	4 weeks	PSYRATS (delusions)	Low risk
(Sonderegger, Rombouts, Ocen, & McKeever, 2011)	Randomised trial (convenience sample)	Refugees/asylum seekers	'EMPOWER'	СВТ	Depressive symptoms; Anxiety symptoms	NR	APAI (two tam scale)	
(Tol et al., 2020)	Cluster RCT	Refugees/asylum seekers	Self-help PLUS	ACT	Mental health NOS	5 weeks	Kessler-6	Low risk
(Ward & Brown, 2015)	Pre-post	Black or mixed race	'Oh Happy Day Class' (OHDC)	CBT (coping with depression)	Depression (MDD)	12 weeks	CES-D	

ACT = acceptance and commitment therapy; ADIS = Anxiety disorder interview schedule; APAI = The Acholi Psychosocial Assessment Instrument; BADS = Behavioural Activation for Depression Scale; BAI = Beck Anxiety Inventory; BDI = Beck Depression Inventory; BPRS = Brief psychiatric rating scale; BSI = brief symptom inventory; CAPS = Clinician-administered PTSD scale; CBT = cognitive behavioural therapy; CDS = Cardiac Depression Scale; CES-D = Centre for Epidemiological Studies Depression Scale; CORE-OM = CORE outcome measure; CPRS = Comprehensive Psychopathological Rating Scale.; CSR = Clinician severity rating; EBT = evidence based treatment; EDE = eating disorder examination; EPDS = Edinburgh Postnatal Depression Scale; FSS = Fear Survey Schedule; GAD = Generalised Anxiety Disorder Assessment; GHQ = General Health Questionnaire; HAM-D = Hamilton Depression Rating Scale; HARS = Hamilton Anxiety Rating Scale; HSCL = Hopkins Symptom Checklist; HTQ = Harvard Trauma Questionnaire; IED-R = Impact of Events Scale Revised; IPT = interpersonal therapy/treatment; MDD = major depressive disorder; NOS = not otherwise specified; NR = not reported/not found; PANNS = Positive and Negative Syndrome Scale of Schizophrenia; PCL-5 = PTSD checklist; PDS = post-traumatic stress diagnostic scale; PDSS = Panic Disorder Severity Scale; PHQ = Patient health questionnaire; PSWQ = Penn State Worry Questionnaire; PSYRATS = Psychotic Symptom Rating Scales; PTA scale = perceived threat of dementia anxiety scale; PTSD = post-traumatic stress disorder; PTSD-CL = PTSD checklist; PCL-C = PTSD checklist (civilian); PTSS = post-traumatic stress symptoms; QIIDS-SR = Quick inventory of depressive symptomology; RCT = randomised controlled trial; RHS; Refugee Health Screener; RoB = risk of bias; SCL = symptom checklist; STARC = Skills training of affect regulation; TMHS = total mental health scale; Y-BOCS = Yale-Brown Obsessive-Compulsive Scale.

Appendix D: Study characteristics - systematic reviews

Twenty-one systematic reviews were identified (**Table D.1**). All but one of the reviews focussed primarily on culturally adapted care. Targeted populations varied with some reviews focussing on studies of a specific BME group and others incorporating studies looking at a range of minority populations. Similarly, many of the reviews looked generally at mental health, including a range of conditions while others focussed on a specific diagnosis (most commonly, depression). Seven of the reviews included meta-analyses, for which observed effect sizes ranged from small to very large. Generally, reviews supported the notion that adapted interventions are beneficial compared to controls, in producing better outcomes for BME groups.

Table D.1: Study characteristics of systematic reviews

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
(Antoniades, Mazza, & Brijnath, 2014)	Immigrants: first generation	Depression	15	NR	9 quantitative; 5 mixed methods; 1 case study. Qual, quant & mixed-methods: Descriptive uncontrolled design; RCT x1;NR experimental study; Case study; Pilot RCT; Randomised pilot study; Pre/post/follow-up study; Pre/post repeated measures study; Pilot case study;	CBT; BA; Collaborative Care Models; Exercise interventions; PST	Cultural adaptation	15 included studies, of which 9 looked at adapted treatments. Majority of studies of Latino immigrants in the USA. 12 studies looked at use of psychotherapies; the remaining 3 looked at collaborative care models and exercise interventions for depression. CBT and BA improved symptoms when culturally adapted, PST improved symptoms with and without adaptations. CC models and exercise did not improve depression significantly.
(Benish, Quintana, & Wampold, 2011)	Racial ethnic minority groups including African American, Asian American and Latino/Hispanic	Unspecified: psychological symptoms/distr ess	19 (reporting 21 direct comparisons)	472	Published and non-published studies	Psychotherapy various: individual therapy; group therapy; family therapy	Cultural adaptation	Findings favoured adapted therapy over non-adapted therapy significantly. Cohen's $d = 0.32$ (95% CI 0.21-0.43), $I^2 = 63.78\%$
(Benuto & O'Donohue, 2015)	Latino/Hispanic	Various mental health conditions	12	NR	RCTs with WL control; RCTs without WL control	Culturally sensitive CBT	Cultural adaptation	The authors found evidence that Hispanics may be effectively treated using conventional CBT. They found little evidence that cultural adaptations result in improved effect sizes; cultural adaptations do not show expected homogeneity re

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
								cultural tailoring, indication poor understanding of Hispanic culture.
(Bhui et al., 2015)	ВМЕ	Various mental health conditions	21	NR	RCTs (x12); Observational quantitative studies (x2); case series (x3); qualitative study (x1); descriptive case studies (x3)	CBT; family therapy; tele- psychiatry	Cultural adaptation; Provider of treatment (ethnic matching); Method of access	Culturally adapted psychotherapies (CBT and family therapies) showed evidence of benefit, as did tele-psychiatry that included ethnic matching.
(Cabassa & Hansen, 2007)	Latino	Depression	9 (reporting 4 trials)	NR	RCTs	CBT; Collaborative care	Cultural adaptation; Language translations; Medium used to provide treatment	Effective depression care programs in primary care for Latinos populations need to be carefully adapted and modified to fit the social, cultural and economic realities of this population.
(Chowdhary et al., 2014)	'ethnic minorities in western countries'	Depression	20	NR	RCTs; non-randomised trials	Psychotherapy various: CBT; IPT); psychoeducation; PST; dynamically- oriented therapy	Cultural adaptation	A meta-analysis of 16 studies included in the review showed a significant benefit of adapted interventions. Cultural adaptations of psychotherapies are effective in the treatment of depressive disorders in people from ethnic minorities. SMD = -0.72 (95% CI -0.940.49), <i>I</i> ² = 90%
(Collado A., Lim A.C., & MacPherson L., 2016)	Latino	Depression	36	NR	RCTs; OLTs	Psychotherapy various: CBT; PST; IPT; BA	Cultural adaptation	The authors concluded that there might be a correlation between cultural adaptations and treatment outcomes
(Degnan et al., 2018)	ВМЕ	Schizophrenia	46 journal articles reporting 43 individual studies	7828	RCTs	Psycho-social interventions: Family interventions; CBT; Combined interventions; Social skills training;	Cultural adaptation	A meta-analysis found a statistically significant post-treatment effect in favour of adapted interventions for total symptom severity, positive symptoms, negative symptoms and general symptoms. The authors conclude that culturally adapted

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
						illness management; mindfulness- based psychoeducation		interventions are more effective when compared to treatments as usual
(Escobar & Gorey, 2018)	Latino (Hispanic)	Depression	9	NR	RCTs; quasi-experimental study	Cognitive behavioural interventions	Cultural adaptation	A meta-analysis indicated an effect in favour of cognitive behavioural interventions that incorporated 'deep structure' cultural adaptations. Interventions that incorporated deep structure interventions were more effective than those that included 'surface structure' or non-adapted interventions for Hispanic people with depression. Deep structure culturally adapted interventions had a success rate of 15-30% better than those typically observed with other usual treatment practices.
(Gearing et al., 2013)	Middle Eastern and Arab	Various mental health conditions	22		Various: qualitative and quantitive studies	Psychological and mental health treatments	Language translation; Cultural adaptation	Cohen's d = 0.41 (95% CI 0.30 – 0.52) Barriers to intervention acceptability within the cultural context were community and system difficulties and problems with clinical engagement processes. Facilitation strategies were working in partnership with the local community and cultural context, engagement with acceptable and traditional intervention characteristics and development of culturally appropriate treatment strategies and techniques. The authors provide recommendations for effective treatment adaptation and translation for Arab communities.
(Griner & Smith, 2006)	ВМЕ	Various mental health conditions	76	25225	Experimental and quasi- experimental studies	Various	Cultural adaptation	A meta-analysis indicated a moderately strong effect size in favour of culturally adapted interventions. Interventions targeted towards a specific cultural group

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
								were 4 times more effective than those provided to groups of patients from a variety of cultures.
								Cohen's d = 0.45 (95% CI 0.36 – 0.53), Q = 459
(Hall, Ibaraki, Huang, Marti, & Stice, 2016)	ВМЕ	Various mental health conditions	78	13998	Various study designs	Psychological interventions	Cultural adaptation	The meta-analysis showed an overall effect size that favoured the effectiveness of culturally adapted interventions over other interventions or conditions (no intervention/other intervention). A medium effect size was found to favour culturally adapted interventions over non-adapted versions of the same intervention. Overall, culturally adapted interventions produced better outcomes than comparison conditions.
(Hankerson & Weissman, 2012)	African Americans	Various health and mental health conditions	8	910	RCTs; Open trials; Observational studies	Church-based health promotion programmes	Method of access; Medium used to provide treatment	Cohen's d = 0.67 (95% CI NR), I^2 = 72% Only one of the studies included looked at anxiety and depressive symptoms as outcomes. The authors concluded that research on church-based health promotion programs for depression is currently underdeveloped and that the literature on church-based health promotion programs for mental disorders among African Americans is extremely limited. Therefore, any conclusions about the role of the Black church in mental health care should be interpreted with caution
(Healey et al., 2017)	BME	Various health and mental health conditions	31	NR	Various study designs	Various	Cultural adaptation	Seventeen of the included studies report at least one significant effect in favour of culturally adapted care. However, there were also findings that favoured the control

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
								group or showed no difference. Researchers did not find consistent evidence supporting implementation of any specific type of adaptation nor increased efficacy with any particular cultural group
(Huey & Tilley, 2018)	Asian Americans	Various mental health conditions	21 (18 included in meta- analysis)	6377	Various study designs	Various	Cultural adaptations (cultural tailoring)	Specificity of cultural tailoring was significantly associated with outcomes, with treatments tailored specifically for Asian subgroups (e.g., Chinese Americans) showing the largest effect sizes (Cohen's d = 1.10), and those with no cultural tailoring or non-Asian tailoring showing the smallest effects (Cohen's d = 0.25)
(Interian A., Lewis- Fernandez R., & Dixon L.B., 2013)	"racial ethnic groups"	Depression; Schizophrenia	10 (only 3 studies incorporated an adaptation)	NR	RCTs	Collaborative care for depression; Family therapy for schizophrenia	Cultural adaptations (Socio- cultural enhancements	The authors concluded that collaborative care for depression can help to improve engagement in people from racial-ethnic populations with depression in primary care. The effectiveness of interventions on clinical outcomes was inconsistent.
(Kalibatseva & Leong, 2014)	ВМЕ	Depression	16	NR	Various study designs	Various depression interventions	Cultural adaptations (culturally- sensitive)	No analysis of effectiveness or meta- analysis was undertaken. The authors conclude that majority of culturally sensitive treatments for depression involve general and practical adaptations, such as translating materials or incorporating specific cultural values.
(Leske et al., 2016)	Indigenous populations	Depression; Anxiety; PTSD; Personality Disorder; Bipolar disorder; Psychotic Disorder; mood Disorder	16 (7 studies incorporated adaptations but only 5 of these considered mental health interventions)	NR	RCTs; pre-post studies	Various: psychological/psych osocial interventions; pharmacological interventions; educational interventions	Cultural adaptations	Of the seven culturally adapted psychological/psychosocial intervention studies, all reported significant improvement on at least one measure of symptoms of mental illness, functioning, and alcohol use

Study ID	Population	Target condition(s)	Included studies (n)	Participants (n)	Study types included	Intervention(s)	Adaptation type(s) reported	Summary of findings
(Palic & Elklit, 2011)	Refugees	PTSD	25 (only 4 used adaptations)	NR	Various study designs	CBT	Cultural adaptations (culturally sensitive)	The majority of the studies were treatment studies of different forms of CBT. Only 4 of the studies incorporated culturally sensitive adaptations. Large effect sizes were obtained in some of the CBT studies, indicating that CBT may be suitable for treatment of PTSD with refugees in many cases
(Pineros-Leano, Liechty, & Piedra, 2017)	Immigrants - Latinos	Depression	11	NR	RCTs; Quasi-experimental studies; pre-post studies	СВТ	Cultural adaptations (categorised as (a) cognitive- informational adaptations, (b) affective- motivational adaptations, and (c) environmental adaptations)	The most commonly used cultural adaptations were language, inclusion of migration experience in the therapy and adjustment of literacy level. Culturally adapted CBT to address depressive symptoms showed promising results
(Van Loon A., Van Schaik A., Dekker J., & Beekman A., 2013)	"ethnic minorities"	Depression; Anxiety	9	NR	RCTs; pre-post studies	CBT; Panic control therapy; Exposure therapy	Cultural adaptations	Culturally adapted treatment for depression and anxiety driven by guidelines, was effective for minority patients from different cultural backgrounds. The authors found some evidence for the effectiveness of the population-specific cultural adaptations. SMD = 1.06 (95% CI 0.51 – 1.62)

 $BA = behavioural\ activation;\ BME = Black\ and\ minority\ ethnic\ groups;\ CBT = cognitive\ behavioural\ therapy;\ CI = confidence\ interval;\ IPT = interpersonal\ therapy/treatment;\ NR = not\ reported;\ PTSD = post-traumatic\ stress\ disorder;\ RCTs = randomised\ controlled\ trials;\ SMD = standardised\ mean\ difference;\ WL = waitlist$

Appendix E: Adaptations applied to all studies

Table E.1: Adaptations applied to all studies (K=88)

Study ID (first author +publication date)	Target population	Target condition(s)	Adaptation area	Specific adaptation types	Common factors: Acceptability & suitability	Common factors: Therapeutic relationship	Common factors details
Acarturk 2015	Refugees/Asylum seekers	PTSD; Depression	Therapist-related	Language translation			
			Content-related	Cultural	Cultural adaptations; Education		Culturally sensitive; Psychoeducation for opinion leaders
			Organisation-specific	Time or length of treatment			
Acarturk 2016 Refugees/Asylum	PTSD;	Therapist-related	Language translation				
	seekers	Depression	Content-related	Cultural	Cultural adaptations; Education		Culturally sensitive; Psychoeducation for opinion leaders
		Organisation-specific	Time or length of treatment				
Alavi 2020	Middle Eastern	Anxiety	Therapist-related	Language translation		Alliance; Patient feedback	Participants had opportunity to feedback to facilitator throughout; A designated therapist providing feedback support and simplified communication throughout to reduce barriers traditionally experienced by target population
			Content-related-related	Cultural; Language translation;	Cultural adaptations		Cultural background of the target population was considered
			Organisation-specific	Form used to provide treatment (online/email)	•		
An 2020	East Asian	Anxiety	Therapist-related			Alliance; Agreement of treatment goals; Expectations of treatment	Clarify role of therapist to group and set group dynamics; therapist as facilitator and educator; psychosocial education incorporated
			Content-related-related- related	Cultural			Culturally adapted in terms of reducing ambiguity for Asian populations; Incorporating Tai Chi as behavioural activation component
			Organisation-specific	Form used to provide treatment	Cultural adaptations;		

					Preparation of the patient; Education		
Afuwape 2010	Black or mixed	Anxiety;	Therapist-related	Provider of treatment	patient, Education		
	race	Depression	Content-related		Education		Health education as part of the intervention package
			Organisation-specific	Method of access			
Alegria 2014 Latino	Latino	Depression	Therapist-related	Training for provider; Provider of treatment (ethnic matching)			
			Content-related	Cultural	Cultural adaptations; Treatment structure		Culturally relevant modifications, terminology, metaphors etc; Structure of treatment was flexible
			Organisation-specific	Form used to provide treatment; Time or length of treatment			
Alegria 2019	Latino	Depression; PTSD; General	Therapist-related	Training for provider; Language translation			
	mental health (secondary);	Content-related	Cultural	Cultural adaptations		Cultural adaptations (limited info 'tailored specifically for Latinos')	
		Substance use (primary)	Organisation-specific	Location of treatment; Form used to provide treatment	-		
Ashing 2014	Latino	Depression	Therapist-related	Training for provider; Provider of treatment; Language translation		Alliance	Therapist-related by paraprofessionals with sociocultural similarities to participants
			Content-related	Cultural	Cultural adaptations; Treatment structure		Culturally sensitive, culturally competent facilitators, culturally sensitive resources; Order of the treatment domains was flexible
			Organisation-specific				
Bedoya 2014	Latino	Depression	Therapist-related	Training for provider; Language translation		Alliance	Adopted the Engagement Interview Protocol and the DSM5 OCF at first visit
			Content-related	Cultural: Language translation	Cultural adaptations; Education		Culturally focussed; Facilitation of patient's knowledge of and resources for getting treatment
			Organisation-specific				
Beeber 2010	Latino	Depression	Therapist-related	Training for provider; Language translation		Alliance	Specific considerations to the development of the TR which underpinned the intervention based on previous work with lived experience ppts with similar demographics to the study group

			Content-related	Cultural	Cultural adaptations		
			Organisation-specific	Location of treatment			
Bernardi 2019	Refugees/asylum seekers	PTSD	Therapist-related	Language translation		Alliance; Expectations of treatment	Interpreter was viewed also as a facilitator of the therapist-patient relationship
			Content-related	Cultural; Language translation; Religious/faith-based	Cultural adaptations; Preparation of the patient; Treatment structure		Treatment provided with a facilitator to support relationship-building; foundation and rationale for treatment discussed; Simplified structural elements
			Organisation-specific				
Bernstein 2016	East Asian	Depression	Therapist-related				
			Content-related	Cultural	Cultural adaptations		'Culturally tailored'
			Organisation-specific	Time or length of treatment			
Bolton 2003	Black or mixed race	Depression	Therapist-related	Training for provider/facilitator; Provider of treatment		Agreement of treatment goals; Expectations of treatment	Specific focus on agreeing goals; Initial meeting sets out what group treatment will entail and how it will work
			Content-related	Cultural	Cultural adaptations; Treatment structure		Culturally-relevant terminology and modifications to manual based on consultation with layperson group leaders; Flexible treatment structure
			Organisation-specific	Form used to provide treatment (group); Location of treatment			
Bonilla- Escobar 2018	Black or mixed race	Depression; PTSD; Anxiety	Therapist-related	Training for provider; Provider of treatment (layperson); Language translation		Alliance	Trained laypersons were all survivors of displace and violence themselves and were recognised leaders or caregivers in the community
			Content-related		Treatment structure; Education		Modular elements can stand alone and be delivered in any order; Psychoeducation provided early in treatment
			Organisation-specific	Location of treatment (community)			
Bradley 2006	East Asian	Schizophrenia	Therapist-related	Language translation			

	_		Content-related	Cultural	Cultural adaptations; Education		Incorporation of traditional cultural healing practices alongside intervention, informal outreach conducted; Psychoeducation for families
			Organisation-specific	Location of treatment			
Cachelin 2018	Latino	Eating disorder	Therapist-related				
		(binge eating)	Content-related	Cultural; Language translation	Cultural adaptations; Education		Several cultural adaptations made including socio-cultural sensitivity; Patients were educated on potential benefits of intervention
			Organisation-specific	Time or length of treatment			•
Cajanding	East Asian	Depressive	Therapist-related				
2016		symptoms	Content-related	Cultural	Cultural adaptations		Culturally adapted to fit the Filipino context
			Organisation-specific		•		
Camacho 2015	Latinx	Depressive symptoms	Therapist-related	Training for provider; Language translation		Expectations of treatment	Trained 'depression care specialists' in the intervention and provided a warm hand-off to confer trust and improve compliance between therapist and patient
			Content-related	Cultural	Cultural adaptations; Treatment structure		Altered two of the first key steps of intervention to meet patient need; Modifications to cultural perspectives and beliefs
			Organisation-specific				
Carter 2003	Black or mixed race	Panic disorder	Therapist-related	Provider of treatment		Alliance	Developed through therapist displaying ethnic sensitivity
			Content-related	Cultural	Cultural adaptions		Cultural sensitivity/awareness
			Organisation-specific	Form used to provide treatment			
Chien 2012	East Asian	First-episode	Therapist-related				
		mental illness (NOS)	Content-related	Cultural	Cultural adaptations; F Preparation of the pati		Adopted strategies to address traditional Chinese cultural tenets; Educational needs identified and incorporated; orientation and understanding of MH focussed on interdependence and collective actions
			Organisation-specific				
Choi 2012	East Asian	Depression	Therapist-related	Language translation			
	_		Content-related	Cultural; Language translation	Cultural adaptations		Culturally attuned re terms of reference and images

	_		Organisation-specific						
Choy 2016	East Asian	Depressive symptoms	Therapist-related			Alliance; Empathy	Pre-intervention interview to establish rapport; Observer assisted therapist to nurture individual behavioural and emotional concerns		
			Content-related	Cultural	Cultural adaptations; Preparation of the patient		Culturally-modified manual, culturally sensitive protocol, culturally-appropriate homework materials		
			Organisation-specific	Form used to provide treatment; Location of treatment	•				
Collado 2014	Latino	Depressive	Therapist-related	Language translation					
		symptoms	Content-related	Language translation					
			Organisation-specific						
Collado 2016	Latino	Depression:	Therapist-related	Language translation					
		Major Depressive Disorder	Content-related	Language translation					
			Organisation-specific						
Comas-Diaz 1981	Latino	no Depressive symptoms	Therapist-related	Language translation; Provider of treatment (ethnic matching)		Alliance	Therapist from same cultural background		
			Content-related	Cultural	Cultural adaptations; Treatment structure		Treatment consistent with cultural values; Group therapy consistent with family/social values		
			Organisation-specific	Form used to provide treatment (group)					
Cooper 2013	Black or mixed race			Depression: Major	Therapist-related	Provider of treatment (ethnic matching)		Alliance	Clinicians received an 'intervention' aimed to help them develop rapport
		Depressive Disorder	Content-related	Cultural	Cultural adaptations; Treatment structure; Education		Culturally-tailored focussed on access barriers, social context, patient-provider relationship + culturally targeted materials; Flexible structure; Education element to treatment		
			Organisation-specific		******				
Dahne 2019	Latino	Depressive	Therapist-related						
		symptoms	Content-related	Language translation	Education		Psychoeducation on relationship between mood and activities provided		
			Organisation-specific	Form used to provide treatment					

De Graaff 2020	Refugees/Asylum seekers	Depression; Anxiety	Therapist-related	Provider of treatment (peers); Training for provider; Language translation		Alliance	Peer provided to support alliance
			Content-related	Cultural	Cultural adaptation		'Culturally adapted'
			Organisation-specific				
Drozdek 2012	Refugees/Asylum seekers	PTSD	Therapist-related			Alliance; Expectations of treatment; Agreement of treatment goals	Phase one focusses specifically on building alliance; Phase one includes agreement of treatment goals; Phase one includes setting out expectations
			Content-related	Cultural	Cultural adaptations; Education; Treatment structure		Cultural adaptations for displaced people; Psychoeducation formed part of the early and later phases; Included nonverbal elements
			Organisation-specific	Time or length of treatment; Location of treatment; Form used to provide treatment (group)			
Dwight- Johnson 2011	Latino	Depression	Therapist-related	Language translation; Provider of treatment (ethnic match)		Alliance	
			Content-related	Cultural; language translation	Cultural adaptations structure	; Treatment	_
			Organisation-specific	Location of treatment; Form used to provide treatment (phone); Method of access; Time of length of treatment			
Feldman 2016	Latino	Panic Disorder	Therapist-related	Training for provider; Language translation			
			Content-related	Cultural	Cultural adaptations		Modified treatment to address cultural characteristics of Latino pop
			Organisation-specific		•		•
Gallagher- Thompson	East Asian	Depression	Therapist-related	Language translation		Patient feedback	Final session reviewed what worked and did not work
2007			Content-related	Cultural; Language translation	Cultural adaptations; Treatment structure		Culturally acceptable terms used; Modules could be presented in any order

			One ania ation: Ci-	Location of two two and			
			Organisation-specific	Location of treatment; Form used to provide treatment			
Gallagher-	Latino	Depressive	Therapist-related	Language translation			
Thompson 2008		symptoms	Content-related	Cultural; Language translation	Cultural adaptations; Education		Culturally sensitive to concerns of Latino caregivers; Participants receive education in session 1 on negative effects of stress on body and mind and how treatment might help;
			Organisation-specific	Form used to provide treatment (small groups)			<u> </u>
Gallagher-	East Asian	Depression	Therapist-related				
Thompson 2010			Content-related	Cultural; Language translation	Cultural adaptations		'Culturally-tailored'
			Organisation-specific	Form used to provide treatment	•		
Glueckauf 2012	Black or mixed race	Depression	Therapist-related				
			Content-related				
			Organisation-specific	Form used to provide treatment			
Gonyea 2016	Latino	Depression; Anxiety	Therapist-related	Language translation		Alliance	
			Content-related	Cultural	Cultural adaptations		-
			Organisation-specific	Location of treatment			
Grote 2009	BME NOS	Perinatal depression	Therapist-related			Agreement of treatment goals; Alliance	Collaborative problem solving of identified barriers to care; Trust-building
			Content-related	Cultural	Cultural adaptations; Treatment structure		Culturally relevant modifications, terminology, metaphors etc.
			Organisation-specific	Time or length of treatment; Location of treatment			
Habib 2015	South Asian	Schizophrenia	Therapist-related				
			Content-related	Cultural	Cultural adaptations		
			Organisation-specific		•		

Hahm 2019	East Asian	Depression	Therapist-related	Provider of treatment (ethnic matching); Language translation	Alliance;	Initial sessions emphasise building therapeutic relationship; Cultivating a space free of judgement and fostering a sense of safety
			Content-related	Cultural; Language translation	Cultural adaptations; Preparation of the patient; Education	Incorporates culture-specific elements in the therapeutic process; Initial sessions incorporate educational aspects
			Organisation-specific			
Hahm 2020	East Asian; South Asian	Anxiety; Depression; PTSD	Therapist-related	Provider of treatment (ethnic matching); Language translation	Alliance;	Initial sessions emphasise building therapeutic relationship; Cultivating a space free of judgement and fostering a sense of safety
			Content-related	Culture; Language translation	Cultural adaptations; Preparation of the patient; Education	Incorporates culture-specific elements in the therapeutic process; Initial sessions incorporate educational aspects
			Organisation-specific		•	
Heilemann 2011	Latino	Depression	Therapist-related		Alliance	Through use of collaborative maps co-created by patient and therapist in early stages
			Content-related	Cultural	Cultural adaptations; Education; Preparation of the patient;	Sensitive to cultural milieu; Education on CBT and analysis of automatic thoughts;
			Organisation-specific	Form used to provide treatment; Location of treatment (community setting); Time or length of treatment		
Hendriks 2020	Black or mixed race	Depression; Anxiety	Therapist-related	Training for provider/facilitator		
		·	Content-related	Cultural; Religious/faith- based	Cultural adaptations; Treatment structure; Education	Followed a comprehensive cultural adaptation framework and drew upon existing methods of adaptations (surface and deep structure); Some modules were dropped and structural changes were made to better suit target population; Psychoeducation elements
			Organisation-specific	Time or length of treatment		
Himelhoch 2011	Black or mixed race	Depression	Therapist-related	Training for provider	Alliance	Explicit methods taken to establish alliance with particular population group in early stages
	_		Content-related	Cultural	Cultural adaptations	Cultural appropriateness determined by lived experience advisers
				-		

	_		Organisation-specific	Form used to provide treatment (phone); Time or length of treatment (flexible)					
Hinton 2004	Refugees/asylum	PTSD; Panic	Therapist-related						
	seekers; East Asian	Disorder	Content-related	Cultural	Cultural adaptations		Culturally appropriate visualisation representing cultural values and cultural modifications		
			Organisation-specific						
Hinton 2005	Refugees/asylum	PTSD; Panic	Therapist-related						
	seekers; East Asian	Attacks	Content-related	Cultural	Cultural adaptations		Culturally appropriate visualisation representing cultural values and cultural modifications		
			Organisation-specific						
Hinton 2011	Latino	PTSD	Therapist-related	Language translation					
			Content-related	Cultural	Cultural adaptations; Education		Culturally appropriate and specific analogies and imagery, culturally appropriate visualization representing cultural values; Education about PTSD using imagery		
			Organisation-specific						
Hovey 2014	Latino	Depression	Therapist-related	Language translation; Provider of treatment (layperson in additional clinician); Training for provider (layperson assisting)		Alliance; Agreement of treatment goals	Early sessions focussed on patient contributions and collaborative working, establishing trust; Shared goal-setting		
			Content-related	Cultural	Cultural adaptations; Education		Culturally responsive support groups, cultural values incorporated; Educational materials		
						Organisation-specific	Location of treatment; Form used to provide treatment; Time or length of treatment		
Huey Jr 2006	East Asian	st Asian Phobia	Therapist-related	Training for provider					
			Content-related	Cultural	Cultural adaptations		Culture-responsive, adaptations derived from research, scholars and recommendations		
			Organisation-specific						
Hwang 2015	East Asian	Depression	Therapist-related	Language translation		Alliance; Collecting patient feedback	Improving the client-therapist relationship is part of framework; reviewing and refining adaptions and testing the adapted interventions with stakeholders		

	-		Content-related	Cultural	Cultural adaptations; Preparation of the patient		Incorporates cultural beliefs about mental illness
			Organisation-specific				
Interian 2008	Latino	Depression (MDD)	Therapist-related	Language translation		Expectations of treatment; Alliance	Potential benefits of treatment communicated using Spanish phrases and terms; Use of terms/sayings to complement therapeutic techniques to ensure constant discussion between therapist and patient
			Content-related	Cultural	Cultural adaptations		Culturally relevant terminology and culturally sensitive language and approaches
			Organisation-specific	Location of treatment			
Jones 2011	Black or mixed	Depression	Therapist-related	Provider of treatment			
	race		Content-related	Cultural	Cultural adaptations		
			Organisation-specific	Form used to provide treatment (group)	•		
Kananian 2020	Refuges/asylum seekers	MH NOS	Therapist-related	Training for provider; Language translation		Alliance	Steps to ensure safe, comfortable environment
			Content-related	Cultural; Language translation	Cultural adaptations; Education		Culturally adapted imagery and terms of reference; Each session started with psychoeducation
			Organisation-specific	Form used to provide treatment (group)			
Kanter 2010	Latino	Depression	Therapist-related	Language translation; Training for provider/facilitator		Agreement of treatment goals	Therapists work collaboratively to agree goals and include the family give importance of family in this group
			Content-related	Cultural; Language translation	Cultural adaptations; Treatment structure; Education		Culturally sensitive activation targets, incorporation of Latino specific values and beliefs; Additions to and structuring of final sessions; Education about therapy in session one
			Organisation-specific	Time or length of treatment			
Kanter 2015	Latino	Depression	Therapist-related	Language translation; Training for provider/facilitator		Agreement of treatment goals	Therapist worked collaboratively with the client to set goals
			Content-related	Cultural; Language translation	Cultural adaptations		Increased emphasis on culturally important resources as family and community, terms of reference acronyms that did not translate well

	-		Organisation-specific	Time or length of treatment; Method of access (access route alternative)			
Karasz 2015	South Asian	Depression	Therapist-related			Agreement of treatment goals	Group goal-getting
			Content-related	Cultural	Cultural adaptations; Education		Culturally synchronous approach; Educational component of each session
			Organisation-specific	Form used to provide treatment (group)			
Kaltman 2016	Latino	Depression; PTSD	Therapist-related	<u> </u>		Alliance; Agreement of treatment goals	Initial exercise designed to induce trust-building between interventionist and patient; Ongoing goal setting and review
			Content-related	Cultural	Cultural adaptations; Preparation of the patient; Education		MI techniques used to increase readiness for participation in groups; Psychoeducation component was made relevant to Latinos
			Organisation-specific	Time or length of treatment; Form used to provide treatment (group and individual sessions)			
Kayrouz 2015	Middle Eastern	Depression;	Therapist-related	,			
		Anxiety	Content-related	Cultural; Language translation	Cultural adaptations; Education; Preparation of patient		Culturally-modified, culturally relevant terminology; Module educating ppts on depression and anxiety and symptoms using terms relevant to the target pop; Basic principles of CBT included modifications to make it appropriate for target group's context
			Organisation-specific	Form used to provide treatment (internet)			
Knaevelsrud 2015	Middle Eastern	PTSD	Therapist-related	Language translation; Training for provider/facilitator		Expectations of treatment	Therapists responded to patient expectations of healthcare professional - provided straight instructions and decisiveness;
			Content-related	Cultural; Language translation; Religious/faith based	Cultural adaptations		Explicit respect towards the concept of family in line with cultural views
			Organisation-specific	C			
Kohn 2002	Black or mixed	Depression	Therapist-related				
	race	(MDD)	Content-related	Cultural	Cultural adaptations; Treatment structure		Changes to some of the language used to describe CBT techniques, African American

							anecdotes to illustrate concepts; Added specific modules to address issues relevant to AA women
			Organisation-specific				
Koch 2020	Refugees/asylum seekers	MH NOS	Therapist-related			Agreement of treatment goals; Expectations of treatment	Clarifying the role of the therapist (= Person) and the clients' expectations towards a treatment (= Goals) in an initial clinical interview
			Content-related	Cultural	Cultural adaptations; Education		Offered same sex groups due to cultural barriers: Expressing ideas in culturally relevant visual and verbal forms
			Organisation-specific	Form used to provide treatment (group)			
Kruse 2009	Refugees/asylum seekers	PTSD	Therapist-related	Language translation		Alliance	First stage dedicated to development of treatment alliance where a relationship based on respect, truthful information and emotional bonding was established; Care taken to ensure a safe, healing space
			Content-related	Cultural	Cultural adaptations; Education		Adapted principles from the trauma-specific stabilization phase for war refugees + culture-related issues; First stage dedicated to education including psychoeducation
			Organisation-specific				
Laperriere 2005	BME NOS	Depression	Therapist-related				
2005			Content-related	Cultural	Cultural adaptations		Culturally-relevant emphasis
			Organisation-specific	Form used to provide treatment			
Lindegaard	Middle Eastern;	Depression	Therapist-related	Language translation			
2019	Refugees/asylum seekers	s/asylum Co	Content-related	Cultural; Language translation	Cultural adaptations		Modifications made to ensure cultural appropriateness included focus on positive social reinforcers and making the intervention more in line with collectivistic orientation of the target population's culture
			Organisation-specific	Form used to provide treatment (online); Method of access			
Leiler 2020	Refugees/asylum seekers	MH NOS	Therapist-related	Training for provider/facilitator; Provider of treatment (layperson/untrained); Language translation		Patient feedback	Qualitative feedback collected throughout from both staff and patients; Trained students to provide treatment

			Content-related	Cultural; Language translation	Cultural adaptations; Education; Preparation of patient		Culturally inappropriate material removed
			Organisation-specific	Form used to provide treatment (group); Location of treatment (asylum centre)			
Lindegaard	Refugees/asylum	Depression	Therapist-related				
2020	seekers		Content-related	Cultural; Language translation	Cultural adaptations; Treatment structure		Culturally adapted in line with cultural stigma about mental health; Treatment format adapted for participant group
			Organisation-specific	Form used to provide treatment (online)			
Lovell 2014	Black or mixed race; South Asian	Depression; Anxiety	Therapist-related	Training for provider/facilitator		Agreement of treatment goals	Collaborative goal identification
			Content-related	Cultural	Cultural adaptations		Culturally-sensitive terminology and phrasing, reference to target group specific challenges
			Organisation-specific	Form used to provide treatment (telephone or face-to-face offered); Method of access (referral options)			
Matsumoto	East Asian	Anxiety	Therapist-related	(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
2020		(various types)	Content-related				
			Organisation-specific	Form used to provide treatment (videoconference)			
Meffert 2014	Refugees/asylum seekers; Black or mixed race	Depression; PTSD	Therapist-related	Training for provider; Provider of treatment; Language translation			
			Content-related	Language translation			
			Organisation-specific	Time or length of treatment; Location of treatment			
Miranda 2003	BME NOS	Depression	Therapist-related	Training for provider; Language translation			
	_		Content-related	Cultural; Language translation	Cultural adaptations		More personalised interactions

	_		Organisation-specific	Time or length of treatment			
Muto 2011	East Asian	Depressive	Therapist-related				
		symptoms; Anxiety	Content-related	Language translation; Cultural	Cultural adaptations		Culturally-relevant terms of reference and metaphors
			Organisation-specific				
Naeem 2014	South Asian	Depression	Therapist-related				
			Content-related	Cultural; Religious/faith- based	Cultural adaptations; Education		Culturally-relevant terms of reference and stories; Psychoeducation provided at start
			Organisation-specific				
Naeem 2015	South Asian	Schizophrenia	Therapist-related				
			Content-related	Cultural; Religious/faith-based	Cultural adaptations; Treatment structure		Culturally appropriate terms of reference, involvement of family member in care enhances acceptability; Added session or the family, family member of co-therapist, flexibility of structure
			Organisation-specific				
Neuner 2008	Refugees/asylum seekers	PTSD	Therapist-related	Training for provider; Provider of treatment		Empathy	The lay people trained were refugees themselves and were chosen because of their ability to empathize with ppts
			Content-related		Education; Preparation of the patient; Treatment structure		Psychoeducation about PTSD before treatment begun; Prepared ppts for what treatment would entail; Flexible treatment structure
			Organisation-specific				
Pan 2011	Black or mixed race	Phobia	Therapist-related			Alliance	Focussed on vertical relationship which fosters directive therapy to encourage alliance
			Content-related	Cultural	Cultural adaptations; Education		Addressing the participant's cultural background and acculturation status, semantic modifications; Psychoeducation
			Organisation-specific				
Peidra 2012	Latino	Depression	Therapist-related	Training for provider; Language translation			
	_		Content-related	Cultural; Language translation	Cultural adaptations; Preparation of the patient		Modifications to terminology and language and to reflect experience of migration and acculturation; Specific modifications to provide orientation to the intervention and therapeutic process

	_		Organisation-specific	Time or length of		
			Organisation-specific	treatment; Method of		
				access; Location of		
				treatment; Medium used		
				to provide treatment		
				(group)		
Rathod 2013	BME NOS	Schizophrenia	Therapist-related			
			Content-related	Cultural; Training for provider/facilitator	Cultural adaptations	Culturally-based patient health beliefs, attributions concerning psychosis, attention to
			Organisation-specific			help seeking pathways,
Razili 1998	East Asian;	Anxiety	Therapist-related		Alliance	Established a good rapport by not preventing
Kazin 1776	Religious	Analety	тпетарізі-тешей		(rappor) ppts from seeking additional religious support
	minority		Content-related	Cultural; Religious/faith-based	Cultural adaptations	Socio-cultural adaptations in addition to specific religious/faith messages incorporated
			Organisation-specific			
Razili 2002	East Asian; Religious minority	Anxiety (Generalised anxiety	Therapist-related		Alliance (rappor	F
	ininority	disorder)	Content-related	Cultural; Religious/faith- based	Cultural adaptations	Socio-cultural adaptations in addition to specific religious/faith messages incorporated
			Organisation-specific	basea	adaptations	rengious/tauti messages meorporated
Rosmarin 2010	Religious	Anxiety	Therapist-related			
	minority		Content-related	Cultural; Religious/faith-based	Cultural adaptations; Preparati the patient	on of Content-related is adapted in line with Jewish sources and folk-tales; Introduction prepares and encourages patients to engage in intervention
			Organisation-specific			
Ryan 2018	Latino	Depression;	Therapist-related			
		Anxiety	Content-related	Cultural; Language translation	Cultural adaptations; Preparation of the patient; Education	Adapted to be culturally relevant to Latina immigrant mothers e.g. culturally relevant imagery, vignettes, terms etc.; Orientation preintervention; Education about key terms and dialogues
			Organisation-specific	Location of treatment; Time or length of treatment; Method of access (open)		
Sander 2019		PTSD	Therapist-related			
	_					

	Refugees/asylum		Content-related	Language translation			
	seekers		Organisation-specific				
Scogin 2007	BME NOS	Depressive symptoms	Therapist-related	Provider of treatment; Training for provider/facilitator			
			Content-related	Cultural	Cultural adaptations; Treatme structure	ent	Inclusion of family member or friend as a facilitator; Variable amount of sessions availble
			Organisation-specific	Medium used to provide treatment; Location of treatment			
Shaw 2018	Refugees/Asylum seekers; Middle Eastern	Depression; Anxiety	Therapist-related	Provider of treatment; Training for provider/facilitator			
			Content-related	Cultural	Cultural adaptations; Education		Incorporated culturally and religiously appropriate symbols and imagery; Initial education on trauma-related disorders and emotion
			Organisation-specific	Medium used to provide treatment; Time or length of treatment			
Shin 2002	East Asian	Schizophrenia	Therapist-related	Language translation		ment of ent goals	Goals specified for each module
			Content-related	Cultural; Language translation	Cultural adaptations; Education		Traditional disease concepts incorporated into sessions, inclusion of family members offered; Educational techniques designed to enhance ppts' learning and maintain attention
			Organisation-specific				
So 2015	East Asian	Schizophrenia	Therapist-related	Language translation			
			Content-related	Cultural; Language translation	Cultural adaptations		Culturally-relevant terms of reference, replaced Western examples and scenarios with those that are culture-neutral or more familiar to the HK Chinese population
			Organisation-specific				
Sonderegger 2011	Refugees/asylum seekers	Mental health NOS (including	Therapist-related	Training for facilitator/provider		ment of nent goals	Goal-setting is covered in the first phase
		depressive symptoms)	Content-related	Cultural; Language translation	Cultural adaptations		Culturally sensitive and relevant activities, includes forgiveness/reconciliation component
			Organisation-specific	Medium used to provide treatment (group)			

Tol 2020	Refugees/asylum seekers	Mental health NOS	Therapist-related	Training for provider/facilitator; Provider of treatment (layperson); Language translation			
			Content-related	Language translation	Education		Psychoeducation and engagement elements
			Organisation-specific	Medium used to provide treatment (self-help, group); Method of access (rapid)			
Ward 2015	Black or mixed race	Depression (MDD)	Therapist-related	Provider of treatment (ethnic match); Training for provider/facilitator		Alliance	Methods taken specifically to elucidate trust and respect with AA clients
			Content-related	Cultural; Religious adaptations	Cultural adaptations; Education		Culturally-specific incorporating AA cultural beliefs into treatment; Psychoeducation incorporating AA issues
			Organisation-specific	Medium used to provide treatment (group)			

 $AA = A frican \ American; \ CBT = cognitive \ behavioural \ the rapy; \ PTSD = post-traumatic \ stress \ disorder$

Appendix F: Supplementary results and analyses

Search results and data acquisition

The initial search (April 2019) yielded 7640 results of which 235 potentially relevant articles were considered at full-text. One hundred and forty-nine articles were excluded leaving 86 for inclusion in the review. Of these, 66 were primary studies. Reference lists of 21 eligible systematic reviews were screened, leading to identification of an additional 8 studies which met inclusion criteria. Details of primary studies can be found in **Appendix C** and systematic reviews in **Appendix D**.

There were 13 primary studies for which additional data was requested from the corresponding author. Of these, 6 authors responded and were able to provide missing data (Alegría et al., 2019, 2014; Cajanding, 2016; Dahne et al., 2019; Habib et al., 2015; Shaw et al., 2018). A further 2 study authors responded but were unable to access or provide missing data (Camacho et al., 2015; Kohn et al., 2002). There was no response from the authors of the remaining 5 studies (Comas-Díaz, 1981; Cooper et al., 2013; Huey Jr & Pan, 2006; Karasz et al., 2015; Miranda et al., 2003). In total, 7 studies were excluded from consideration for analysis on the basis of insufficient data. However, all studies are included in the study characteristics table (**Table C.1**) and were used to answer research question 1 about frequency of adaptations reported.

Update searches

An update search in July 2020 retrieved 579 additional studies, after removing duplicates. Of these, 13 primary studies were considered at full text. Six of these studies met inclusion criteria; 5 RCTs (including a cluster randomised controlled trial) and 1 pre-post study. Missing data was requested from one study author (Alavi & Hirji, 2020) but was not received and so could not be considered for inclusion in the meta-analysis. A further update search was run in December 2020 leading to the identification of 209 studies after removing duplicates. Of these, 24 primary studies were considered at full text. Eight met inclusion criteria; 5 RCTs and 3 pre-post studies (see **Figure 1** for the study identification flowchart).

In total, 88 primary studies were included, of which 57 were RCTs (including pilots) initially considered for meta-analysis; we included 51 studies in the main analyses, following a sensitivity analysis and the removal of 6 studies with unusually large effect sizes (i.e., greater than 2). Study characteristics are available in **Appendix C**.

Sub-group analyses (RCTs) by target population group

Table F.1: Target population/group categories

Target population/group	Included in population group
Latinx	Latinx; Latino; Latina; Hispanic (Puerto Rican)
Black or mixed race	African; African American; African British; Black African; Black Caribbean; "Black"; mixed race Black African or Caribbean
East Asian	East Asian; Asian (Chinese, Korean, Japanese, Vietnamese)
South Asian	South Asian; Asian (Indian; Pakistani; Bangladeshi; Sri Lankan)
NOS/mixed groups/immigrants/migrants	"racial/ethnic diverse" "immigrants" "migrants" or no other info; mixed ethnic/racial groups
Middle Eastern	Middle Eastern; Arabian
Religious minority	Jewish; Muslim
Refugees or asylum seekers	Refugees; asylum seekers; displaced people

 $BME = Black \ and \ other \ minority \ ethnic; \ NOS = not \ otherwise \ specified$

Table F.2: Number of RCTs targeting BME groups

Target population/group	Number of studies (K)	Study IDs of included RCTs
East Asian	14	An (2020); Bradley (2006); Cajanding (2016); Choi (2012); Choy
		(2016); Gallagher-Thompson (2007); Gallagher-Thompson (2010);
		Hwang (2005); Muto (2011); Razali (1998)*; Razali (2002)*; Shin
		(2002); So (2015); Hahm (2019)
Latinx	12	Alegria (2019); Ashing (2014); Beeber (2010); Cachelin (2018);
		Collado (2016); Dahne (2019); Dwight-Johnson (2011); Feldman
		(2016); Gallgher-Thompson (2008); Gonyea (2016); Hinton
		(2011); Kanter (2015)
Refugees/asylum seekers	10	Acarturk (2015); Acarturk (2016); De Graaff (2020); Koch (2020);
		Meffert (2014)*; Neuner (2009); Shaw (2018)*; Lindegaard
		(2019)*; Linedegaard (2020)*; Tol (2020)
Black or mixed race	8	Afuwape (2010); Bolton (2003); Bonilla-Escobar (2018); Carter
		(2003); Glueckauf (2012); Jones (2011); Meffert (2014)*;
		Hendriks (2020)
NOS/mixed groups	5	Laperriere (2005); Lindegaard (2020)*; Grote (2009); Rathod
		(2013); Scogin (2007)
Religious minority	3	Razali (1998)*; Razali (2002)*; Rosmarin (2010)
Middle Eastern	3	Knaevelsrud (2015); Shaw (2018)*; Lindegaard (2019)*
South Asian	2	Naeem (2014); Naeem (2015)

^{*}studies which explicitly targeted people from one of the 'BME' groups who also belonged to 'religious minority' or 'refugees/asylum seekers' groups.

Table F.3: Meta-analyses of adapted interventions for different target population subgroups

Target population	K (Number of comparisons)	Hedge's g (95% CI)	p-value	I^2
East Asian	14 (15)	-0.43 (-0.71, -0.16)	.002	78.55%
Latinx	12 (13)	-0.48 (-0.84, -0.11)	.011	86.92%
Refugees or asylum seekers	10 (11)	-0.99 (-1.35, -0.64)	<.001	81.98%
Black or mixed race	8 (10)	-0.70 (-0.95, -0.46)	<.001	62.59%
NOS/mixed groups/'immigrants/migrants'	5 (5)	-0.62 (-1.04, -0.19)	.004	71.14%
Religious minority	3 (4)	-0.18 (-0.52, -0.16)	.291	64.14%
Middle Eastern	3 (3)	-1.02 (-1.29, -0.74)	<.001	0.00%
South Asian	2 (2)	-1.02 (-1.27, -0.77)	<.001	2.05%

^{&#}x27;NOS' = not otherwise specified

Population group: East Asian

Fourteen studies looked at interventions adapted for East Asian people. One study included 2 separate samples of East Asian participants, analysed separately based on their primary diagnosis of either anxiety or depression (Razali et al., 1998), so we treated the anxiety and depression samples individually in the analysis. Two studies targeted religious minorities who were of East Asian ethnicity (Razali et al., 2002, 1998). Most studies targeted depression (Cajanding, 2016; Choi et al., 2012; Choy & Lou, 2016; Gallagher-Thompson et al., 2007, 2010; Hwang et al., 2015; Muto et al., 2011; Razali et al., 1998); fewer targeted anxiety (An et al., 2020; Razali et al., 2002, 1998); psychosis (Bradley et al., 2006; Shin & Lukens, 2002; So et al., 2015). Eight of the studies compared an adapted intervention to an active control condition, while the other 6 compared the intervention to a waitlist or no intervention condition. The majority of the studies were adapted from CBT or cognitive therapy. Seven of the studies made therapist-related adaptations; all made at least one Content-related-level adaptation

and 5 made Organisation-specific-level adaptations. Eight studies made adaptations to impact the therapeutic relationship, however, 3 of the studies were self-help or self-administered interventions (Choi et al., 2012; D. Gallagher-Thompson et al., 2010; Muto et al., 2011). All interventions included acceptability and suitability adaptations.

The results indicate that for East Asian people, adapted interventions were significantly more effective than non-adapted or waitlist controls (K = 14 (15 comparisons); Hedge's g = -0.43 [95% CI: -0.71, -0.16, p = .002) and heterogeneity was substantial ($I^2 = 78.55\%$).

Population group: Latinx

Twelve studies targeted Latinx (including Hispanic, Latina or Latino) populations. One study (Gonyea et al., 2016) included primary outcome measures for both anxiety and depression. The majority of the studies targeted depression (Ashing & Rosales, 2014; Beeber et al., 2010; Collado A., Calderon et al., 2016; Dahne et al., 2019; Dwight-Johnson et al., 2011; Gallagher-Thompson et al., 2008; Gonyea et al., 2016; Kanter et al., 2015). Anxiety was targeted in 2 studies (Feldman et al., 2016; Gonyea et al., 2016). One study each looked at eating disorder (specifically, binge eating disorder) (Cachelin et al., 2018); PTSD (Hinton et al., 2011) and mental health NOS (Alegría et al., 2019). All but two of the studies compared adapted interventions to waitlist controls. Eight studies adapted traditional CBT, 3 adapted behavioural activation and one adapted IPT. Ten studies made Therapist-related adaptations, all made Content-related adaptations and 8 made Organisation-specific adaptations. The most frequently applied specific adaptation types were explicit cultural (Content-related) and language translation (Therapist-related). Common factors adaptations were made to improve the therapeutic relationship in 5 studies whereas adaptations to improve acceptability and appropriateness were made in all but one of the studies.

A significant, medium effect size was observed in favour of adapted interventions for Latinx people compared to controls (K=12 (13 comparisons), Hedge's g = -0.47 [95% CI: -0.85, -0.11], p=.0107). Heterogeneity was substantial: I^2 = 86.92%.

Population group: Refugees and/or asylum seekers

Ten studies looked at adapted interventions for refugees or asylum seekers. Of these, the participant groups of 4 studies also belonged to another BME group (Hinton et al., 2004; Lindegaard et al., 2019, 2020; Meffert et al., 2014; Shaw et al., 2018). Most of the studies focussed on treating PTSD (Acarturk et al., 2016; Acarturk et al., 2015; Meffert et al., 2014; Neuner et al., 2008); one was transdiagnostic (de Graaff et al., 2020); the others targeted depression (Lindegaard et al., 2019, 2020; Shaw et al., 2018). Five of the studies included at least one explicit cultural-Content-related adaptation. The 3 studies that didn't incorporate explicit cultural (Content-related) adaptations made Therapist-related-level adaptations (training for provider/facilitator and changed the provider of treatment to a layperson/non-professional). Three studies included adaptations of CBT; 2 were adaptations of EMDR; 1 provided adapted trauma counselling; 1 study adapted ACT; 1 adapted problem management, and 1 was adapted from IPT. Three RCTs compared adapted interventions to active treatments, the remainder compared adapted treatments to waitlist or no intervention/delayed intervention controls.

We observed a large effect of adapted interventions for refugees/asylum seekers compared to controls (K=10 (11 comparisons), Hedge's g = -0.99 [95% CI: -1.35to -0.64], p <.0001); Heterogeneity was substantial: I² = 81.98%.

Population group: Black or mixed-race people

Black or mixed-race people were targeted in 8 studies. Five studies targeted depression (Afuwape et al., 2010; Bolton et al., 2003; Glueckauf et al., 2012; Hendriks et al., 2020; Jones & Warner, 2011); 2 targeted anxiety (Carter et al., 2003; Hendriks et al., 2020); 1 looked at mental health problems NOS (Bonilla-Escobar et al., 2018) and the remaining study targeted PTSD (Meffert et al., 2014). The study by Hendriks and colleagues (2020) included outcome measures for depression and anxiety symptoms. All but one of the studies compared adapted interventions to waitlist controls. Five of the studies used an adaptation of CBT, 1 utilised positive psychology and 2 adapted IPT. Therapist-related adaptations were made in all but one of the studies, Content-related adaptations in 5 studies and Organisation-specific adaptations in all 8 studies. The most frequently

applied specific adaptation types were Therapist-related (provider of treatment) and Organisation-specific (the medium used to provide treatment).

A significant, medium effect size was observed in favour of adapted interventions compared to controls (K=8 (10 comparisons); Hedge's g= -0.70 [95% CI: -0.95, =-0.46], p<.0001). Heterogeneity was substantial: I² = 62.59%.

Population group: BME 'not otherwise specified', immigrants/migrants or mixed groups

Five of the included RCTs were of BME groups that were not explicitly defined (e.g., 'immigrants/migrants' with little further detail) or were of mixed ethnic groups. Four studies targeted depression (including 1 for perinatal depression) (Grote et al., 2009; Laperriere et al., 2005; Lindegaard et al., 2020; Scogin et al., 2007) and the other targeted schizophrenia (Rathod et al., 2013). All but one compared adapted interventions to active controls. Only 1 study included therapist-related adaptations, whilst all included Content-related adaptations. Four included organisation- specific adaptations. Only 1 study made adaptations to influence therapeutic relationship whilst all made adaptations to improve acceptability and suitability of treatment. The most frequently applied specific adaptation was explicit cultural adaptation, which were made across all 5 studies. Almost half of the studies provided training to the provider, the location of treatment Therapist-related and the medium used to provide treatment. Four studies adapted CBT and the other adapted IPT.

We observed significant medium effect size in favour of adapted interventions compared to controls (K=5; Hedge's g=-0.62 [95% CI: -1.04, -0.19], p=.004). Heterogeneity was considerable: I² = 71.14%.

Population group: South Asian

Only 2 studies looked at South Asian communities. One study targeted schizophrenia (Naeem et al., 2015) and used an active control and the other targeted depression (Naeem et al., 2014) and used a waitlist/no intervention control. Neither study made Therapist-related adaptations or organisation-specific adaptations to interventions. Both made content-related adaptations and these were all exclusively and explicitly described as cultural. Both incorporated religious adaptations and neither made adaptations explicitly to influence the therapeutic relationship. Both of the interventions were adaptations of CBT.

A very large effect size was observed (K = 2; Hedge's g = -1.02 [95% CI: -1.27, -0.77], p < .0001) and there was minimal heterogeneity ($I^2 = 2.05\%$).

Population group: Religious minority

Religious minority groups were the focus of 3 studies; one which used 2 separate participant samples for anxiety and depression (Razali et al., 1998), and 2 which targeted anxiety specifically (Razali et al., 2002; Rosmarin et al., 2010). All but one of the studies were adapted from CBT; these studies also all compared the adapted CBT intervention to an active control whilst the other used a waitlist control group. The other study adapted loosely defined 'psychotherapy' None of the studies made Therapist-related adaptations, yet all made Content-related adaptations. Three of the studies included explicit modifications to influence the therapeutic relationship and all made adaptations to improve acceptability and appropriateness (all of which were described as explicitly cultural). Specific religious adaptations were made in all studies.

We observed a very small effect size in favour of adapted interventions for religious minority groups compared to controls (K=3 (4 comparisons); Hedge's g = -0.18 [95% CI: -0.52, -0.16], p= .2907) but this was not significant. Heterogeneity was substantial: I² = 63.14%.

Population group: Middle Eastern

Three of the studies targeted people from Middle Eastern backgrounds; 1 targeted people with PTSD (Knaevelsrud et al., 2015) and the others depression (Lindegaard et al., 2019; Shaw et al., 2018). All compared adapted CBT interventions to waitlist controls. Adaptations made to all studies included Therapist-related adaptations and Content-related adaptations. Two of the studies also made Organisation-specific adaptations. Common factors adaptations included acceptability and appropriateness adaptations made in all studies, while

only one study made modifications to impact the therapeutic relationship. All studies made explicitly described cultural adaptions.

A meta-analysis showed a very large effect size in favour of adapted interventions compared to waitlist controls (K=3); Hedge's g=-1.02 [95% CI: -1.29, -0.74], p<.0001. There was no heterogeneity observed: $I^2=0.00\%$.

Meta-regressions

All RCTs

Control type

Table F.4: Single predictor meta-regression - control group type

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Waitlist/no intervention ^a	-0.4171	0.1315	.002	-0.67, -0.16	19.77%

a reference category = active control

Mental health problem

Table F.5: Mental health problem meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
56	1	Target problem ^a					
		Depression	-0.1328	0.2136	.5340	-0.55, 0.28	0.00%
		PTSD	-0.6446	0.3023	.033	-1.24, -0.05	
		Psychosis	-0.0544	0.3152	.8628	-0.56, 0.67	
		Eating disorder	-0.6780	0.6215	.2753	-1.90, 0.54	
		MH problem NOS	-0.0533	0.2977	.8579	-0.64, 0.53	
56	2	Target problem ^a					
		Depression	-0.1414	0.1982	.4755	-0.53, 0.25	6.96%
		PTSD	-0.5570	0.2823	.049	-1.11, -0.00	
		Psychosis	-0.0451	0.2951	.8785	-0.62, 0.53	
		Eating disorder	-0.4779	0.5874	.416	-1.63, 0.67	
		MH problem NOS	-0.0132	0.2743	.9618	-0.55, 0.52	
		Waitlist/no intervention b	-0.3690	0.1434	.010	-0.65, -0.09	

^a reference category = anxiety; b reference category = active control; MH = mental health; NOS = not otherwise specified; PTSD = post-traumatic stress disorder

Risk of bias

Table F.6: Single predictor meta-regression – risk of bias

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Low risk of bias a	0.2793	0.1508	.064	-0.57, 0.02	12.21%

a reference category = unclear risk of bias

Overarching adaptation area

Table F.7: Single predictor meta-regression- therapist-related adaptations

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Therapist-related adaptation ^a	-0.0707	0.1485	.664	-0.22, 0.36	0.00%

^a reference category = no therapist-related adaptation

Table F.8: Single predictor meta-regression- Content-related-related adaptations

K	Variable	Coefficient	SE	p-value	95% CI	R^2
51	Content-related-related	-0.2410	0.2486	.332	-0.73, 0.25	0.00%
	adaptation ^a					

a reference category = no Content-related-related adaptation

Table F.9: Single predictor meta-regression- organisation-specific adaptations

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Organisation-specific adaptation ^a	-0.3692	0.1425	.009	-0.65, -0.09	7.29%

a reference category = no organisation-specific adaptation

Table F.10: Overarching adaptation areas meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
56	1	Overarching adaptation area					
		Therapist-related adaptation ^a	0.1089	0.1474	.459	-0.18, 0.49	6.98%
		Content-related-related adaptation ^b	-0.2626	0.2458	.285	-0.74, 0.22	
		Organisation-specific adaptation ^c	-0.3995	0.1448	.006	-0.68, -0.12	
56	2	Overarching adaptation area					
		Therapist-related adaptation ^a	0.1121	0.1333	.401	-0.15, 0.37	30.50%
		Content-related-related adaptation ^b	-0.3460	0.2215	.118	-0.78, 0.09	
		Organisation-specific adaptation ^c	-0.3401	0.1316	.009	-0.60, -0.08	
		Waitlist/no intervention d	-0.3977	0.1274	.002	-0.65, -0.15	

^a reference category = no therapist-related adaption; ^b reference category = no Content-related-related adaption; ^c reference category = no organisation-specific adaption; ^d reference category = active control

Specific adaptation type

Table F.11: Single predictor meta-regression – explicit cultural (Content-related) adaptation

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Explicit cultural adaptation ^a	-0.1374	0.2012	.495	-0.53, 0.26	0.00%

^a reference category = no explicit cultural (Content-related) adaptation

Table F.12: Single predictor meta-regression- form used to provide treatment adaptation

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Form used adaptation ^a	-0.2031	0.1503	.177	-0.49, 0.09	0.00%

 $[\]overline{a}$ reference category = no form used adaptation

Table F.13: Single predictor meta-regression - language translation adaptation

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Language translation adaptation ^a	0.0675	0.1457	.643	-0.22, 0.35	0.00%

a reference category = no language translation adaptation

Table F.13: Single predictor meta-regression – provider of treatment adaptation

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Provider of treatment	-0.0749	0.1597	.639	-0.39, 0.24	0.00%
	adaptation ^a					

 $[\]overline{a}$ reference category = no provider of treatment adaptation

Table F.14: Single predictor meta-regression-training for provider

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Training for provider	0.2269	0.1476	.124	-0.06, 0.52	0.42%
	adaptation ^a					

a reference category = no training for provider adaptation

Table F.15: Single predictor meta-regression – location of treatment

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Location of treatment adaptation ^a	-0.0654	0.1640	.690	-0.39, 0.26	0.00%

 $[\]overline{a}$ reference category = no location of treatment adaptation

Table F.14: Specific adaptation type meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
56	1	Specific adaptation type					
		Explicit cultural	-0.1540	0.2360	.514	-0.62, 0.31	0.00%
		Language translation	-0.0309	0.1574	.844	-0.28, 0.34	
		Form used	-0.1315	0.1669	.431	-0.46, 0.20	
		Provider of treatment	-0.2418	0.2136	.256	-0.66, 0.18	
		Training for provider	0.3166	0.1841	.085	-0.00, 0.68	
		Location of treatment	-0.0832	0.1813	.646	-0.44, 0.28	
56	2	Specific adaptation type					
		Explicit cultural	-0.1826	0.2164	.398	-0.61, 0.24	6.91%
		Language translation	-0.0002	0.1436	.999	-0.28, 0.28	
		Form used	-0.1375	0.1522	.366	-0.44, 0.16	
		Provider of treatment	-0.1692	0.1967	.389	-0.55, 0.22	
		Training for provider	0.2694	0.1684	.109	-0.06, 0.60	
		Location of treatment	-0.1350	0.1658	.416	-0.46, 0.19	
		Waitlist/no intervention ^a	-0.4099	0.1417	.004	-0.69, -0.13	

^a reference category = active control; Language translation (therapist and Content-related-related) adaptations; form used = form used to provide treatment

Common factors adaptations

Table F.16: Single predictor meta-regression – therapeutic relationship adaptations

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Therapeutic relationship	0.0339	0.1450	.820	-0.25, 0.32	0.00%

^a reference category= no therapeutic relationship adaptation

Table F.16: Single predictor meta-regression - acceptability and appropriateness adaptations

K	Variable	Coefficient	SE	p-value	95% CI	R^2
56	Acceptability and suitability a	0.2130	0.3827	.578	-0.54, 0.96	0.00%

a reference category= no acceptability and suitability adaptation

Table F.17: Common factors adaptations meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
56	1	Common factors					
		Therapeutic relationship	-0.0191	0.1489	.897	-0.31, 0.27	0.00%
		Acceptability and suitability	-0.2059	0.3941	.601	-0.98, -0.40	
56	2	Common factors					
		Therapeutic relationship	-0.0505	0.1373	.713	-0.22, 0.32	16.21%
		Acceptability and suitability	-0.3031	0.3715	.415	-1.03, 0.42	
		Waitlist/no intervention ^a	-0.4314	0.1356	.002	-0.70, -0.17	

^a reference category = active control

RCTs of adapted CBT interventions for anxiety and depression

Common factors adaptations

Table F.18: Common factors adaptations meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
27	1	Common factors					
		Therapeutic relationship	-0.1038	0.2531	.6818	-0.60, 0.39	0.00%
		Acceptability and suitability	-0.3327	0.8839	.7067	-2.07,1.40	

Specific adaptation type

Table F.19: Specific adaptation type meta-regressions

K	Model	Variable	Coefficient	SE	p-value	95% CI	R^2
27	1	Specific adaptation type					
		Explicit cultural	-0.0187	0.5587	.973	-1.18, -0.20	0.97%
		Language – Content-related- related	0.2779	0.3282	.397	-0.37, 0.92	
		Form used	0.3151	0.2676	.239	-0.21, 0.84	
		Language – therapist-related	-0.4174	0.2934	.155	-0.99, 0.16	

Language – Content-related = language translation (Content-related-related) adaptations; language – therapist-related = language translation (therapist-related) adaptations; form used = form used to provide treatment

References

- Acarturk, C., Konuk, E., Cetinkaya, M., Senay, I., Sijbrandij, M., Cuijpers, P., & Aker, T. (2015). EMDR for Syrian refugees with posttraumatic stress disorder symptoms: Results of a pilot randomized controlled trial. *European Journal of Psychotraumatology*, 6. Retrieved from http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=psyc12&NEWS=N&AN=2015 -26838-001
- Acarturk, C., Konuk, E., Cetinkaya, M., Senay, I., Sijbrandij, M., Gulen, B., & Cuijpers, P. (2016). The efficacy of eye movement desensitization and reprocessing for post-traumatic stress disorder and depression among Syrian refugees: Results of a randomized controlled trial.

 Psychological Medicine, 46(12), 2583–2593.
- Acarturk, Ceren, Konuk, E., Cetinkaya, M., Senay, I., Sijbrandij, M., Cuijpers, P., & Aker, T. (2015).

 EMDR for Syrian refugees with posttraumatic stress disorder symptoms: Results of a pilot randomized controlled trial. *European Journal of Psychotraumatology*, 6. Retrieved from http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=psyc12&NEWS=N&AN=2015-26838-001
- Afuwape, S. A., Craig, T. K., Harris, T., Clarke, M., Flood, A., Olajide, D., ... Thornicroft, G. (2010). The Cares of Life Project (CoLP): An exploratory randomised controlled trial of a community-based intervention for black people with common mental disorder. *Journal of Affective Disorders*, 127(1), 370–374.
- Alavi, N., & Hirji, A. (2020). The Efficacy of PowerPoint-based CBT Delivered Through Email: Breaking the Barriers to Treatment for Generalized Anxiety Disorder. *Journal of Psychiatric Practice*, 26(2), 89–100.
- Alegría, M., Falgas-Bague, I., Collazos, F., Carmona Camacho, R., Lapatin Markle, S., Wang, Y., ...

 Mueser, K. T. (2019). Evaluation of the Integrated Intervention for Dual Problems and Early

 Action Among Latino Immigrants With Co-occurring Mental Health and Substance Misuse

 Symptoms: A Randomized Clinical Trial. *JAMA Network Open, 2*(1), e186927–e186927.

- Alegria, M., Ludman, E., Kafali, E. N., Lapatin, S., Vila, D., Shrout, P. E., ... Canino, G. (2014).

 Effectiveness of the Engagement and Counseling for Latinos (ECLA) intervention in low-income Latinos. *Medical Care*, *52*(11), 989–997.
- Alegría, M., Ludman, E., Kafali, E. N., Lapatin, S., Vila, D., Shrout, P. E., ... Canino, G. (2014).

 Effectiveness of the Engagement and Counseling for Latinos (ECLA) intervention in low-income Latinos. *Medical Care*, *52*(11), 989–997.
- An, Q., Wang, K., Sun, F., & Zhang, A. (2020). The effectiveness of modified, group-based CBT for dementia worry among Chinese elders. *Journal of Affective Disorders*, *274*, 76–84. https://doi.org/10.1016/j.jad.2020.05.054
- Antoniades, J., Mazza, D., & Brijnath, B. (2014). Efficacy of depression treatments for immigrant patients: Results from a systematic review. *BMC Psychiatry*, 14, 176.
- Ashing, K., & Rosales, M. (2014). A telephonic-based trial to reduce depressive symptoms among Latina breast cancer survivors. *Psycho-Oncology*, *23*(5), 507-515.
- Bedoya, C. A., Traeger, L., Trinh, N. H., Chang, T. E., Brill, C. D., Hails, K., ... Yeung, A. (2014). Impact of a culturally focused psychiatric consultation on depressive symptoms among Latinos in primary care. *Psychiatric Services (Washington, D.C.)*, *65*(10), 1256-1262.
- Beeber, L. S., Holditch-Davis, D., Perreira, K., Schwartz, T. A., Lewis, V., Blanchard, H., ... Davis

 Goldman, B. (2010). Short-term in-home intervention reduces depressive symptoms in Early

 Head Start Latina mothers of infants and toddlers. *Research in Nursing & Health*, *33*(1), 60–76.
- Benish, Quintana, & Wampold, B. E. (2011). Culturally adapted psychotherapy and the legitimacy of myth: A direct-comparison meta-analysis. *Journal of Counseling Psychology*, *58*(3), 279–289. https://doi.org/10.1037/a0023626
- Benuto, L. T., & O'Donohue, W. (2015). Is culturally sensitive cognitive behavioral therapy an empirically supported treatment?: The case for Hispanics. *International Journal of Psychology & Psychological Therapy*, *15*(3), 405–421.

- Bernardi, J., Dahiya, M., & Jobson, L. (2019). Culturally modified cognitive processing therapy for Karen refugees with posttraumatic stress disorder: A pilot study. *Clinical Psychology & Psychotherapy*, *26*(5), 531–539.
- Bernstein, K., Park, S. Y., Hahm, S., Lee, Y. N., Seo, J. Y., & Nokes, K. M. (2016). Efficacy of a Culturally

 Tailored Therapeutic Intervention Program for Community Dwelling Depressed Korean

 American Women: A Non-Randomized Quasi-Experimental Design Study. *Archives of Psychiatric Nursing*, 30(1), 19–26.
- Bhui, K., Aslam, R. W., Palinski, A., McCabe, R., Johnson, M. R. D., Weich, S., ... Szczepura, A. (2015).

 Interventions designed to improve therapeutic communications between black and minority ethnic people and professionals working in psychiatric services: A systematic review of the evidence for their effectiveness. *Health Technology Assessment (Winchester, England)*, 19(31), vii–173.
- Bolton, P., Bass, J., Neugebauer, R., Verdeli, H., Clougherty, K. F., Wickramaratne, P., ... Weissman, M. (2003). Group interpersonal psychotherapy for depression in rural Uganda: A randomized controlled trial. *JAMA*, *289*(23), 3117–3124. https://doi.org/10.1001/jama.289.23.3117
- Bonilla-Escobar, F. J., Fandino-Losada, A., Martinez-Buitrago, D. M., Santaella-Tenorio, J., Tobon-Garci, D., Munoz-Morales, E. J., ... Bolton, P. (2018). Randomized controlled trial of a transdiagnostic cognitive-behavioral intervention for Afro-descendants' survivors of systemic violence in Colombia. *PLoS ONE*, *13*(12). Retrieved from http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=psyc14&NEWS=N&AN=2018 -63843-001
- Bradley, G. M., Couchman, G. M., Perlesz, A., Nguyen, A. T., Singh, B., & Riess, C. (2006). Multiple-family group treatment for English- and Vietnamese-speaking families living with schizophrenia. *Psychiatric Services (Washington, D.C.)*, *57*(4), 521–530.
- Cabassa, L. J., & Hansen, M. C. (2007). A systematic review of depression treatments in primary care for Latino adults. *Research on Social Work Practice*, *17*(4), 494–503.

- Cachelin, F. M., Gil-Rivas, V., Palmer, B., Vela, A., Phimphasone, P., de Hernandez, B. U., & Tapp, H. (2018). Randomized controlled trial of a culturally-adapted program for Latinas with binge eating. *Psychological Services*, No-Specified.
- Cajanding, R. J. M. (2016). The Effectiveness of a Nurse-Led Cognitive-Behavioral Therapy on the Quality of Life, Self-Esteem and Mood Among Filipino Patients Living With Heart Failure: A Randomized Controlled Trial. *Applied Nursing Research*, *31*, 86–93.
- Camacho, Á., González, P., Castañeda, S. F., Simmons, A., Buelna, C., Lemus, H., & Talavera, G. A.

 (2015). Improvement in Depressive Symptoms Among Hispanic/Latinos Receiving a

 Culturally Tailored IMPACT and Problem-Solving Intervention in a Community Health

 Center. *Community Mental Health Journal*, *51*(4), 385–392. https://doi.org/10.1007/s10597-014-9750-7
- Carter, M. M., Sbrocco, T., Gore, K. L., Marin, N. W., & Lewis, E. L. (2003). Cognitive—Behavioral

 Group Therapy Versus a Wait-List Control in the Treatment of African American Women with

 Panic Disorder. *Cognitive Therapy and Research*, *27*(5), 505–519.
- Chien, W.-T., Leung, S.-F., & Sk Chu, C. (2012). A nurse-led, needs-based psycho-education intervention for Chinese patients with first-onset mental illness. *Contemporary Nurse: A Journal for the Australian Nursing Profession*, 40(2), 194–207.
- Choi, I., Zou, J., Titov, N., Dear, B. F., Li, S., Johnston, L., ... Hunt, C. (2012). Culturally attuned Internet treatment for depression amongst Chinese Australians: A randomised controlled trial.

 **Journal of Affective Disorders, 136(3), 459–468. https://doi.org/10.1016/j.jad.2011.11.003
- Chowdhary, N., Jotheeswaran, A. T., Nadkarni, A., Hollon, S. D., King, M., Jordans, M. J. D., ... Patel, V. (2014). The methods and outcomes of cultural adaptations of psychological treatments for depressive disorders: A systematic review. *Psychological Medicine*, *44*(6), 1131–1146.
- Choy, J. C. P., & Lou, V. W. Q. (2016). Effectiveness of the Modified Instrumental Reminiscence

 Intervention on Psychological Well-Being Among Community-Dwelling Chinese Older Adults:

- A Randomized Controlled Trial. *The American Journal of Geriatric Psychiatry : Official Journal of the American Association for Geriatric Psychiatry*, 24(1), 60–69.
- Collado A., Calderon M., MacPherson L., & Lejuez C. (2016). The Efficacy of Behavioral Activation

 Treatment among Depressed Spanish-Speaking Latinos. *Journal of Consulting and Clinical Psychology*, 84(7), 651–657. https://doi.org/10.1037/ccp0000103
- Collado, A., Castillo, S. D., Maero, F., Lejuez, C. W., & Macpherson, L. (2014). Pilot of the brief behavioral activation treatment for depression in latinos with limited english proficiency:

 Preliminary evaluation of efficacy and acceptability. *Behavior Therapy*, 45(1), 102–115.
- Collado A., Lim A.C., & MacPherson L. (2016). A systematic review of depression psychotherapies among Latinos. *Clinical Psychology Review*, *45*((Collado) Emory University, Department of Psychiatry and Behavioral Sciences, 12 Executive Park Drive NE, suite 300, Atlanta, GA 30329, United States), 193–209. https://doi.org/10.1016/j.cpr.2016.04.001
- Comas-Díaz, L. (1981). Effects of cognitive and behavioral group treatment on the depressive symptomatology of Puerto Rican women. *Journal of Consulting and Clinical Psychology*, 49(5), 627-632.
- Cooper, L. A., Ghods Dinoso, B. K., Ford, D. E., Roter, D. L., Primm, A. B., Larson, S. M., ... Wang, N.-Y. (2013). Comparative effectiveness of standard versus patient-centered collaborative care interventions for depression among African Americans in primary care settings: The BRIDGE Study. *Health Services Research*, *48*(1), 150–174.
- Dahne, J., Collado, A., Lejuez, C. W., Risco, C. M., Diaz, V. A., Coles, L., ... Carpenter, M. J. (2019). Pilot randomized controlled trial of a Spanish-language Behavioral Activation mobile app (Aptivate!) for the treatment of depressive symptoms among united states Latinx adults with limited English proficiency. *Journal of Affective Disorders*, *250*, 210–217.
- de Graaff, A. M., Cuijpers, P., McDaid, D., Park, A., Woodward, A., Bryant, R. A., ... Sijbrandij, M. (2020). Peer-provided Problem Management Plus (PM+) for adult Syrian refugees: A pilot

- randomised controlled trial on effectiveness and cost-effectiveness. *Epidemiology and Psychiatric Sciences*, *29*. https://doi.org/10.1017/S2045796020000724
- Degnan, A., Baker, S., Edge, D., Nottidge, W., Noke, M., Press, C. J., ... Drake, R. J. (2018). The nature and efficacy of culturally-adapted psychosocial interventions for schizophrenia: A systematic review and meta-analysis. *Psychological Medicine*, *48*(5), 714–727.
- Drozdek, B., Kamperman, A. M., Bolwerk, N., Tol, W. A., & Kleber, R. J. (2012). Group therapy with male asylum seekers and refugees with posttraumatic stress disorder: A controlled comparison cohort study of three day-treatment programs. *The Journal of Nervous and Mental Disease*, 200(9), 758–765.
- Dwight-Johnson, M., Aisenberg, E., Golinelli, D., Hong, S., O'Brien, M., & Ludman, E. (2011).

 Telephone-based cognitive-behavioral therapy for Latino patients living in rural areas: A randomized pilot study. *Psychiatric Services (Washington, D.C.)*, *62*(8), 936–942.
- Escobar, K. M., & Gorey, K. M. (2018). Cognitive behavioral interventions for depression among Hispanic people: Promising meta-analytic evidence for deep cultural adaptations. *Social Work in Mental Health*, *16*(6), 746–758.
- Feldman, J. M., Matte, L., Interian, A., Lehrer, P. M., Lu, S. E., Scheckner, B., ... al, et. (2016).

 Psychological treatment of comorbid asthma and panic disorder in Latino adults: Results from a randomized controlled trial. *Behaviour Research and Therapy*, 87, 142-154.
- Gallagher-Thompson, D., Gray, H. L., Tang, P. C., Pu, C. Y., Leung, L. Y., Wang, P. C., ... al, et. (2007).

 Impact of in-home behavioral management versus telephone support to reduce depressive symptoms and perceived stress in Chinese caregivers: Results of a pilot study. *American Journal of Geriatric Psychiatry*, *15*(5), 425-434.
- Gallagher-Thompson, D., Wang, P. C., Liu, W., Cheung, V., Peng, R., China, D., & Thompson, L. W. (2010). Effectiveness of a psychoeducational skill training DVD program to reduce stress in Chinese American dementia caregivers: Results of a preliminary study. *Aging & Mental Health*, *14*(3), 263–273.

- Gallagher-Thompson, Dolores, Gray, H. L., Dupart, T., Jimenez, D., & Thompson, L. W. (2008).

 Effectiveness of cognitive/behavioral small group intervention for reduction of depression and stress in non-Hispanic White and Hispanic/Latino women dementia family caregivers:

 Outcomes and mediators of change. Special Issue: Psychotherapy with Older People, 26(4), 286–303.
- Gearing, R. E., Schwalbe, C. S., MacKenzie, M. J., Brewer, K. B., Ibrahim, R. W., Olimat, H. S., ... Al-Krenawi, A. (2013). Adaptation and translation of mental health interventions in Middle Eastern Arab countries: A systematic review of barriers to and strategies for effective treatment implementation. *International Journal of Social Psychiatry*, *59*(7), 671–681.
- Glueckauf, R. L., Davis, W. S., Willis, F., Sharma, D., Gustafson, D. J., Hayes, J., ... al, et. (2012).

 Telephone-based, cognitive-behavioral therapy for African American dementia caregivers with depression: Initial findings. *Rehabilitation Psychology*, *57*(2), 124-139.
- Gonyea, J. G., Lopez, L. M., & Velasquez, E. H. (2016). The Effectiveness of a Culturally Sensitive

 Cognitive Behavioral Group Intervention for Latino Alzheimer's Caregivers. *The Gerontologist*, *56*(2), 292–302.
- Griner, D., & Smith, T. B. (2006). Culturally adapted mental health intervention: A meta-analytic review. *Special Issue: Culture, Race, and Ethnicity in Psychotherapy*, *43*(4), 531–548.
- Grote, N. K., Swartz, H. A., Geibel, S. L., Zuckoff, A., Houck, P. R., & Frank, E. (2009). A randomized controlled trial of culturally relevant, brief interpersonal psychotherapy for perinatal depression. *Psychiatric Services*, *60*(3), 313–321.
- Habib, N., Dawood, S., Kingdon, D., & Naeem, F. (2015). Preliminary evaluation of culturally adapted CBT for psychosis (CA-CBTp): Findings from developing culturally-sensitive CBT project (DCCP). *Behavioural & Cognitive Psychotherapy*, 43(2), 200–208.
- Hahm, H. C., Hsi, J. H., Petersen, J. M., Xu, J., Lee, E. A., Chen, S. H., & Liu, C. H. (2020). Preliminary efficacy of AWARE in college health service centers: A group psychotherapy intervention for

- Asian American women. *Journal of American College Health, 0*(0), 1–5. https://doi.org/10.1080/07448481.2020.1777135
- Hahm, H. C., Zhou, L., Lee, C., Maru, M., Petersen, J. M., & Kolaczyk, E. D. (2019). Feasibility, preliminary efficacy, and safety of a randomized clinical trial for Asian Women's Action for Resilience and Empowerment (AWARE) intervention. *American Journal of Orthopsychiatry*, 89(4), 462–474.
- Hall, G. C. N., Ibaraki, A. Y., Huang, E. R., Marti, C. N., & Stice, E. (2016). A Meta-Analysis of Cultural Adaptations of Psychological Interventions. *Behavior Therapy*, *47*(6), 993–1014.
- Hankerson, S. H., & Weissman, M. M. (2012). Church-based health programs for mental disorders among African Americans: A review. *Psychiatric Services (Washington, D.C.)*, *63*(3), 243–249.
- Healey, P., Stager, M. L., Woodmass, K., Dettlaff, A. J., Vergara, A., Janke, R., & Wells, S. J. (2017).

 Cultural adaptations to augment health and mental health services: A systematic review.

 BMC Health Services Research, 17, 1–26.
- Heilemann, M. V., Pieters, H. C., Kehoe, P., & Yang, Q. (2011). Schema therapy, motivational interviewing, and collaborative-mapping as treatment for depression among low income, second generation Latinas. *Journal of Behavior Therapy and Experimental Psychiatry*, 42(4), 473–480.
- Hendriks, T., Schotanus-Dijkstra, M., Hassankhan, A., Sardjo, W., Graafsma, T., Bohlmeijer, E., & de Jong, J. (2020). Resilience and well-being in the Caribbean: Findings from a randomized controlled trial of a culturally adapted multi-component positive psychology intervention.

 Journal of Positive Psychology, 15(2), 238–253.
- Himelhoch, S., Mohr, D., Maxfield, J., Clayton, S., Weber, E., Medoff, D., & Dixon, L. (2011). Feasibility of telephone-based cognitive behavioral therapy targeting major depression among urban dwelling African-American people with co-occurring HIV. *Psychology, Health & Medicine*, 16(2), 156–165.

- Hinton, D. E., Chhean, D., Pich, V., Safren, S. A., Hofmann, S. G., & Pollack, M. H. (2005). A randomized controlled trial of cognitive-behavior therapy for Cambodian refugees with treatment-resistant PTSD and panic attacks: A cross-over design. *Journal of Traumatic Stress*, 18(6), 617–629.
- Hinton, D. E., Hofmann, S. G., Rivera, E., Otto, M. W., & Pollack, M. H. (2011). Culturally adapted CBT (CA-CBT) for Latino women with treatment-resistant PTSD: a pilot study comparing CA-CBT to applied muscle relaxation. *Behaviour Research and Therapy*, 49(4), 275–280.
- Hinton, D. E., Pham, T., Tran, M., Safren, S. A., Otto, M. W., & Pollack, M. H. (2004). CBT for

 Vietnamese refugees with treatment-resistant PTSD and panic attacks: A pilot study. *Journal of Traumatic Stress*, *17*(5), 429–433. https://doi.org/10.1023/B:JOTS.0000048956.03529.fa
- Hovey, J. D., Hurtado, G., & Seligman, L. D. (2014). Findings for a CBT Support Group for Latina

 Migrant Farmworkers in Western Colorado. *Current Psychology*, *33*(3), 271–281.

 https://doi.org/10.1007/s12144-014-9212-y
- Huey Jr, S. J., & Pan, D. (2006). Culture-responsive one-session treatment for phobic Asian

 Americans: A pilot study. Special issue: Culture, race, and ethnicity in psychotherapy.

 Psychotherapy, 43(4), 549–554.
- Huey, S. J., & Tilley, J. L. (2018). Effects of mental health interventions with Asian Americans: A review and meta-analysis. *Journal of Consulting and Clinical Psychology*, 86(11), 915–930.
- Hwang, W. C., Myers, H. F., Chiu, E., Mak, E., Butner, J. E., Fujimoto, K., ... Miranda, J. (2015).

 Culturally adapted cognitive-behavioral therapy for Chinese Americans with depression: A randomized controlled trial. *Psychiatric Services*, *66*(10), 1035–1042.
- Interian, A., Allen, L. A., Gara, M. A., & Escobar, J. I. (2008). A Pilot Study of Culturally Adapted

 Cognitive Behavior Therapy for Hispanics with Major Depression. *Cognitive and Behavioral Practice*, *15*(1), 67–75. https://doi.org/10.1016/j.cbpra.2006.12.002

- Interian A., Lewis-Fernandez R., & Dixon L.B. (2013). Improving treatment engagement of underserved U.S. racial-ethnic groups: A review of recent interventions. *Psychiatric Services*, 64(3), 212–222. https://doi.org/10.1176/appi.ps.201100136
- Jones, L. V., & Warner, L. A. (2011). Evaluating Culturally Responsive Group Work with Black Women.

 *Research on Social Work Practice, 21(6), 737–746.
- Kalibatseva, Z., & Leong, F. T. (2014). A critical review of culturally sensitive treatments for depression: Recommendations for intervention and research. *Psychological Services*, 11(4), 433–450.
- Kaltman, S., de Mendoza, A. H., Serrano, A., & Gonzales, F. A. (2016). A Mental Health Intervention

 Strategy for Low-Income, Trauma-Exposed Latina Immigrants in Primary Care: A Preliminary

 Study. *American Journal of Orthopsychiatry*, 86(3), 345–354.
- Kananian, S., Soltani, Y., Hinton, D., & Stangier, U. (2020). Culturally Adapted Cognitive Behavioral

 Therapy Plus Problem Management (CA-CBT+) With Afghan Refugees: A Randomized

 Controlled Pilot Study. *Journal of Traumatic Stress*, 33(6), 928–938.
- Kanter, J. W., Santiago-Rivera, A. L., Rusch, L. C., Busch, A. M., & West, P. (2010). Initial outcomes of a culturally adapted behavioral activation for Latinas diagnosed with depression at a community clinic. *Behavior Modification*, *34*(2), 120–144.
- Kanter, J. W., Santiago-Rivera, A. L., Santos, M. M., Nagy, G., Lopez, M., Hurtado, G. D., & West, P. (2015). A randomized hybrid efficacy and effectiveness trial of behavioral activation for Latinos with depression. *Behavior Therapy*, 46(2), 177–192.
- Karasz, A., Raghavan, S., Patel, V., Zaman, M., Akhter, L., & Kabita, M. (2015). ASHA: Using
 Participatory Methods to Develop an Asset-building Mental Health Intervention for
 Bangladeshi Immigrant Women. Progress in Community Health Partnerships: Research,
 Education, and Action, 9(4), 501–512.

- Kayrouz, R., Dear, B. F., Johnston, L., Gandy, M., Fogliati, V. J., Sheehan, J., & Titov, N. (2015). A feasibility open trial of guided Internet-delivered cognitive behavioural therapy for anxiety and depression amongst Arab Australians. *Internet Interventions*, *2*(1), 32–38.
- Knaevelsrud, C., Brand, J., Lange, A., Ruwaard, J., & Wagner, B. (2015). Web-based psychotherapy for posttraumatic stress disorder in war-traumatized Arab patients: Randomized controlled trial. *Journal of Medical Internet Research*, *17*(3), e71.
- Koch, T., Ehring, T., & Liedl, A. (2020). Effectiveness of a transdiagnostic group intervention to enhance emotion regulation in young Afghan refugees: A pilot randomized controlled study. Behaviour Research and Therapy, 132, 103689. https://doi.org/10.1016/j.brat.2020.103689
- Kohn, L. P., Oden, T., Muñoz, R. F., Robinson, A., & Leavitt, D. (2002). Adapted cognitive behavioral group therapy for depressed low-income African American women. *Community Mental Health Journal*, *38*(6), 497–504. https://doi.org/10.1023/a:1020884202677
- Kruse, J., Joksimovic, L., Cavka, M., Woller, W., & Schmitz, N. (2009). Effects of trauma-focused psychotherapy upon war refugees. *Journal of Traumatic Stress*, *22*(6), 585–592.
- Laperriere, A., Antoni, M. H., Grossman, A., Ironson, G. H., Ishii, M., Jones, D., ... Pomm, H. (2005).

 Decreased depression up to one year following CBSM+ intervention in depressed women with AIDS: the smart/EST women's project. *Journal of Health Psychology*, 10(2), 223–231.
- Leiler, A., Wasteson, E., Holmberg, J., & Bjärtå, A. (2020). A Pilot Study of a Psychoeducational Group

 Intervention Delivered at Asylum Accommodation Centers-A Mixed Methods Approach.

 International Journal of Environmental Research and Public Health, 17(23).

 https://doi.org/10.3390/ijerph17238953
- Leske, S., Harris, M. G., Charlson, F. J., Ferrari, A. J., Baxter, A. J., Logan, J. M., ... Whiteford, H. (2016).

 Systematic review of interventions for Indigenous adults with mental and substance use disorders in Australia, Canada, New Zealand and the United States. *Australian & New Zealand Journal of Psychiatry*, 50(11), 1040–1054.

- Lindegaard, T., Brohede, D., Koshnaw, K., Osman, S. S., Johansson, R., & Andersson, G. (2019).

 Internet-based treatment of depressive symptoms in a Kurdish population: A randomized controlled trial. *Journal of Clinical Psychology*, 75(6), 985–998.
- Lindegaard, T., Seaton, F., Halaj, A., Berg, M., Kashoush, F., Barchini, R., ... Andersson, G. (2020).

 Internet-based cognitive behavioural therapy for depression and anxiety among Arabic-speaking individuals in Sweden: A pilot randomized controlled trial. *Cognitive Behaviour Therapy*, *50*(1), 47–66. https://doi.org/10.1080/16506073.2020.1771414
- Lovell, K., Lamb, J., Gask, L., Bower, P., Waheed, W., Chew-Graham, C., ... Dowrick, C. (2014).

 Development and evaluation of culturally sensitive psychosocial interventions for underserved people in primary care. *BMC Psychiatry*, *14*, 217.
- Matsumoto, K., Hamatani, S., Nagai, K., Sutoh, C., Nakagawa, A., & Shimizu, E. (2020). Long-Term

 Effectiveness and Cost-Effectiveness of Videoconference-Delivered Cognitive Behavioral

 Therapy for Obsessive-Compulsive Disorder, Panic Disorder, and Social Anxiety Disorder in

 Japan: One-Year Follow-Up of a Single-Arm Trial. *JMIR Mental Health*, 7(4). Retrieved from

 https://mental.jmir.org/2020/4/e17157/
- Meffert, S. M., Abdo, A. O., Alla, O. A. A., Elmakki, Y. O. M., Omer, A. A., Yousif, S., ... Marmar, C. R. (2014). A pilot randomized controlled trial of interpersonal psychotherapy for Sudanese refugees in Cairo, Egypt. *Psychological Trauma: Theory, Research, Practice, and Policy*, *6*(3), 240–249.
- Miranda, J., Azocar, F., Organista, K. C., Dwyer, E., & Areane, P. (2003). Treatment of depression among impoverished primary care patients from ethnic minority groups. *Psychiatric Services* (Washington, D.C.), 54(2), 219–225.
- Muto, T., Hayes, S. C., & Jeffcoat, T. (2011). The effectiveness of acceptance and commitment therapy bibliotherapy for enhancing the psychological health of Japanese college students living abroad. *Behavior Therapy*, *42*(2), 323–335.

- Naeem, Faooq, Sarhandi, I., Gul, M., Khalid, M., Aslam, M., Anbrin, A., ... Ayub, M. (2014). A
 multicentre randomised controlled trial of a carer supervised culturally adapted CBT
 (CaCBT) based self-help for depression in Pakistan. *Journal of Affective Disorders*, 156, 224–227. https://doi.org/10.1016/j.jad.2013.10.051
- Naeem, Farooq, Phiri, P., Munshi, T., Rathod, S., Ayub, M., Gobbi, M., & Kingdon, D. (2015). Using cognitive behaviour therapy with South Asian Muslims: Findings from the culturally sensitive CBT project. *International Review of Psychiatry*, *27*(3), 233–246. https://doi.org/10.3109/09540261.2015.1067598
- Neuner, F., Onyut, P. L., Ertl, V., Odenwald, M., Schauer, E., & Elbert, T. (2008). Treatment of posttraumatic stress disorder by trained lay counselors in an African refugee settlement: A randomized controlled trial. *Journal of Consulting and Clinical Psychology*, *76*(4), 686–694.
- Palic, S., & Elklit, A. (2011). Psychosocial treatment of posttraumatic stress disorder in adult refugees: A systematic review of prospective treatment outcome studies and a critique.

 Journal of Affective Disorders, 131(1), 8–23.
- Pan, D., Huey, Jr., S. J., & Hernandez, D. (2011). Culturally adapted versus standard exposure treatment for phobic Asian Americans: Treatment efficacy, moderators, and predictors.

 Cultural Diversity & Ethnic Minority Psychology, 17(1), 11–22.
- Piedra, L. M., & Byoun, S.-J. (2011). Vida Alegre: Preliminary Findings of a Depression Intervention for Immigrant Latino Mothers. *Research on Social Work Practice*, *22*(2), 138–150. https://doi.org/10.1177/1049731511424168
- Pineros-Leano, M., Liechty, J. M., & Piedra, L. M. (2017). Latino immigrants, depressive symptoms, and cognitive behavioral therapy: A systematic review. *Journal of Affective Disorders*, 208, 567–576.
- Rathod, S., Phiri, P., Harris, S., Underwood, C., Thagadur, M., Padmanabi, U., & Kingdon, D. (2013).

 Cognitive behaviour therapy for psychosis can be adapted for minority ethnic groups: A randomised controlled trial. *Schizophrenia Research*, *143*(2), 319–326.

- Razali, S. M., Aminah, K., & Khan, U. A. (2002). Religious-cultural psychotherapy in the management of anxiety patients. *Transcultural Psychiatry*, *39*(1), 130–136.
- Razali, S. M., Hasanah, C. I., Aminah, K., & Subramaniam, M. (1998). Religious—sociocultural psychotherapy in patients with anxiety and depression. *The Australian and New Zealand Journal of Psychiatry*, 32(6), 867–872.
- Rosmarin, D. H., Pargament, K. I., Pirutinsky, S., & Mahoney, A. (2010). A randomized controlled evaluation of a spiritually integrated treatment for subclinical anxiety in the Jewish community, delivered via the Internet. *Journal of Anxiety Disorders*, *24*(7), 799–808.
- Ryan, D., Maurer, S., Lengua, L., Duran, B., & Ornelas, I. J. (2018). Amigas Latinas Motivando el Alma (ALMA): An Evaluation of a Mindfulness Intervention to Promote Mental Health among Latina Immigrant Mothers. *The Journal of Behavioral Health Services & Research*, *45*(2), 280–291.
- Sander, R., Laugesen, H., Skammeritz, S., Mortensen, E. L., & Carlsson, J. (2019). Interpreter-mediated psychotherapy with trauma-affected refugees—A retrospective cohort study.

 *Psychiatry Research, 271, 684–692.
- Scogin, F., Morthland, M., Kaufman, A., Burgio, L., Chaplin, W., & Kong, G. (2007). Improving Quality of Life in Diverse Rural Older Adults: A Randomized Trial of a Psychological Treatment.

 *Psychology and Aging, 22(4), 657–665.
- Shaw, S. A., Ward, K. P., Pillai, V., & Hinton, D. E. (2018). A Group Mental Health Randomized

 Controlled Trial for Female Refugees in Malaysia. *American Journal of Orthopsychiatry*.
- Shin, S. K., & Lukens, E. P. (2002). Effects of psychoeducation for Korean Americans with chronic mental illness. *Psychiatric Services*, *53*(9), 1125–1131.
- So, S. H.-W., Chan, A. P., Chong, C. S.-Y., Wong, M. H.-M., Lo, W. T.-L., Chung, D. W.-S., & Chan, S. S. (2015). Metacognitive training for delusions (MCTd): Effectiveness on data-gathering and belief flexibility in a Chinese sample. *Frontiers in Psychology*, *6*. Retrieved from

- http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=psyc12&NEWS=N&AN=2015 -55172-001
- Sonderegger, R., Rombouts, S., Ocen, B., & McKeever, R. S. (2011). Trauma rehabilitation for waraffected persons in northern Uganda: A pilot evaluation of the EMPOWER programme. *The British Journal of Clinical Psychology*, *50*(3), 234–249.
- Tol, W. A., Leku, M. R., Lakin, D. P., Carswell, K., Augustinavicius, J., Adaku, A., ... van Ommeren, M. (2020). Guided self-help to reduce psychological distress in South Sudanese female refugees in Uganda: A cluster randomised trial. *The Lancet Global Health*, 8(2), e254–e263.
- Van Loon A., Van Schaik A., Dekker J., & Beekman A. (2013). Bridging the gap for ethnic minority adult outpatients with depression and anxiety disorders by culturally adapted treatments.

 *Journal of Affective Disorders, 147(1–3), 9–16. https://doi.org/10.1016/j.jad.2012.12.014
- Ward, E. C., & Brown, R. L. (2015). A culturally adapted depression intervention for African American adults experiencing depression: Oh Happy Day. *The American Journal of Orthopsychiatry*, 85(1), 11–22.