National Institute for Health and Care Excellence

FINAL

Depression in adults

[H] Access to services

NICE guideline NG222

Evidence review underpinning recommendations 1.16.1 to 1.16.5 and research recommendations in the NICE guideline June 2022

Final



May 2024: We have simplified the guideline by removing recommendations on general principles of care that are covered in other NICE guidelines (for example, the NICE guideline on service user experience in adult mental health).

This is a presentational change only, and no changes to practice are intended.

Disclaimer

The recommendations in this guideline represent the view of NICE, arrived at after careful consideration of the evidence available. When exercising their judgement, professionals are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or service users. The recommendations in this guideline are not mandatory and the guideline does not override the responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or their carer or guardian.

Local commissioners and/or providers have a responsibility to enable the guideline to be applied when individual health professionals and their patients or service users wish to use it. They should do so in the context of local and national priorities for funding and developing services, and in light of their duties to have due regard to the need to eliminate unlawful discrimination, to advance equality of opportunity and to reduce health inequalities. Nothing in this guideline should be interpreted in a way that would be inconsistent with compliance with those duties.

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| FINAL |
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| Contents |

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Contents

| Contents | 6 |
|--|----|
| Access | 9 |
| Review question | 9 |
| Introduction | 9 |
| Summary of the protocol | 9 |
| Methods and process | 10 |
| Clinical evidence | 10 |
| Summary of clinical studies included in the evidence review | 11 |
| Quality assessment of clinical outcomes included in the evidence review | 21 |
| Economic evidence | 22 |
| Economic model | 22 |
| Evidence statements | 22 |
| The committee's discussion of the evidence | 26 |
| Recommendations supported by this evidence review | 30 |
| References | 30 |
| Appendices | 33 |
| Appendix A – Review protocols | 33 |
| Review protocol for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender group and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | |
| Appendix B – Literature search strategies | 38 |
| Literature search strategies for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 38 |
| Appendix C – Clinical evidence study selection | |
| Clinical study selection for review question: For adults at risk of depression (o | |
| anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender group and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | S |
| Appendix D – Clinical evidence tables | 49 |
| Clinical evidence tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender group | S |

| and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 9 |
|---|---|
| Appendix E – Forest plots | 0 |
| Forest plots for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 0 |
| Appendix F – GRADE tables | 7 |
| GRADE tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 7 |
| Appendix G – Economic evidence study selection | 5 |
| Economic evidence study selection for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 5 |
| Appendix H – Economic evidence tables | 6 |
| Economic evidence tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | 6 |
| Appendix I – Economic evidence profiles | |
| Economic evidence profiles for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | |
| Appendix J – Economic analysis68 | 8 |
| Economic evidence analysis for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, | |

| | increase the proportion of people from the target group who access treatment, when compared with standard care? | 68 |
|--------------|--|------|
| Appendix K - | - Excluded studies | 69 |
| Exclud | ed clinical and economic studies for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | . 69 |
| Appendix L - | - Research recommendations | 70 |
| Resea | rch recommendations for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? | .70 |
| | treatment, when compared with standard care? | 10 |

Access

Review question

For adults (18 years and older) at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, BME groups, LGBT groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Introduction

Improving access to health and social care should enable people with depression to obtain the help, treatment and support they need in order to preserve and improve their health and wellbeing. Poor access to services may be a greater problem for some groups than others, and equity of access is a particular concern for black minority ethnic (BME) groups, older people, and men, with these groups known to access help less frequently. Lesbian, gay, bisexual and transgender (LGBT) groups may also be more socially excluded and less likely to access support or treatment.

The aim of this review is to determine if service developments which are specifically designed to promote access for these groups, increase access to, and the uptake of, treatments.

Summary of the protocol

See Table 1 for a summary of the Population, Intervention, Comparison and Outcome (PICO) characteristics of this review.

| Population | Adults (18 years and older) identified as at risk of depression (or anxiety disorders*) from the following vulnerable groups: Older adults (mean age of 60 years or older) BME groups LGBT groups Men *due to limited depression-specific evidence, a broader evidence base (including anxiety disorders) was used. An update of the review conducted for the Common Mental Health Disorders NICE guideline was undertaken. |
|--------------|--|
| Intervention | Service developments or changes which are specifically designed to promote access. Specific models of service delivery (that is, community-based outreach clinics, clinics or services in non-health settings). Methods designed to remove barriers to access (including stigma, misinformation or cultural beliefs about the nature of mental disorder) |
| Comparison | Standard care |
| Outcomes | Critical: Proportion of people from the target group who access treatment Uptake of treatment Important: Satisfaction, preference |

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Table 1: Summary of the protocol (PICO table)

Anxiety about treatment

BME: black minority ethnic; LGBT: lesbian, gay, bisexual, transgender

For further details see the review protocol in appendix A.

Methods and process

This evidence review was developed using the methods and process described in <u>Developing NICE guidelines: the manual</u>. Methods specific to this review question are described in the review protocol in appendix A.

Declarations of interest were recorded according to NICE's 2014 conflicts of interest policy until 31 March 2018. From 1 April 2018, declarations of interest were recorded according to NICE's 2018 <u>conflicts of interest policy</u>. Those interests declared until April 2018 were reclassified according to NICE's 2018 conflicts of interest policy (see Register of Interests).

Clinical evidence

Included studies

Eighteen randomised controlled trials (RCTs) are included in this review.

Seven RCTs include interventions to promote access for older adults, with 3 comparisons:

- Tele-problem solving therapy versus in-person problem solving therapy (Choi 2014)
- Co-located services versus geographically separate service (Bartels 2004)
- Collaborative care versus standard care/enhanced standard care (Callahan 1994; Chen 2015; Ciechanowski 2004; Gilbody 2017; Unutzer 2002).

Six RCTs include interventions to promote access for BME groups, with 6 comparisons:

- Culturally sensitive telepsychiatry versus treatment as usual (Chong 2012)
- Culturally-adapted CBT versus treatment as usual (Naeem 2015)
- Culturally adapted motivational enhancement therapy for antidepressants versus usual care (Interian 2013)
- Telephone CBT versus enhanced usual care (Dwight-Johnson 2011)
- Collaborative care versus enhanced standard care (Lagomasino 2017)
- Culturally sensitive collaborative care versus standard collaborative care (Cooper 2013).

No evidence was identified for interventions to promote access for LGBT groups.

Five RCTs included interventions to promote access for men, with 2 comparisons:

- Remote treatment versus face-to-face treatment (Luxton 2016; Yuen 2015)
- Collaborative care versus standard care/enhanced standard care (Dobscha 2006; Fortney 2007; Hedrick 2003).

The included studies are summarised in Table 2 to Table 12.

See the literature search strategy in appendix B and study selection flow chart in appendix C.

Excluded studies

Studies not included in this review with reasons for their exclusions are provided in appendix K.

Summary of clinical studies included in the evidence review

Summaries of the studies that were included in this review are presented in Table 2 to Table 12.

Table 2: Summary of included studies for Comparison 1: Tele-problem solving
therapy versus in-person problem solving therapy for older adults

| therapy versus in-person problem solving therapy for order addits | | | | | |
|---|--|-----------------------------------|--|--|--|
| Study | Population | Intervention | Comparison | Comments | |
| Choi 2014 | N=85 | Problem solving therapy delivered | Problem solving therapy delivered | Length of follow- up (in weeks): 12 | |
| RCT | Targeted group: Older adults | by telephone | face-to-face (in participants' home) | Outcomes: | |
| US | (inclusion criteria 50+ homebound) | Intensity: 6x 1- hour sessions | nome) | • Satisfaction (scores obtained in a | |
| | Disorder: Depression (HAMD score ≥15) | | | treatment acceptance tool) | |
| | Mean age (years): 65.2 | | | | |
| | Sex (% female): 22 | | | | |
| | Ethnicity (% BME): 59 | | | | |

BME: black minority ethnic; HAMD: Hamilton depression rating scale; RCT: randomised controlled trial

Table 3: Summary of included studies for Comparison 2: Co-located services versus geographically separate services for older adults

| Study | | Population | Intervention | Comparison | Comments |
|------------|---|---|--|--------------------------------------|--|
| Bartels 20 | | N=1309 (depression | Integrated care model (mental | Enhanced referral model (referral in | Length of follow- up (in weeks): 26 |
| RCT | : | subgroup) | health [& substance abuse] | 2-4 weeks; treatment in | Outcomes: |
| US | | Targeted group: Older adults (inclusion criteria ≥65 years) Disorder: Depression (primary mental health diagnosis) Mean age (years): NR (≥65) Sex (% female): 74 Ethnicity (% | services co- located in primary care setting) Intensity: Variable | separate location) | Accessing treatment (number of participants who attended an appointment with a mental health provider following randomization at the index primary care visit) Uptake of treatment (number of treatment visits) |
| | | BME): 48 | | | |

BME: black minority ethnic; NR: not reported; RCT: randomised controlled trial

| | care/enhanced s | | | |
|----------------------|--|--|--|--|
| Study | Population | Intervention | Comparison | Comments |
| Callahan 1994 | N=175 | Simple collaborative care | Standard care | Length of follow- up (in weeks): 13 |
| RCT US | Targeted group: Older adults (inclusion criteria ≥60 years) | Specialist advice (3 additional GP visits, with instructions on | TAU (no additional visits or feedback on depression scores, referral | Outcomes: • Accessing treatment (number of |
| | Disorder: Depression (above clinical threshold on CES-D and HAMD) | referral and suggested clinical actions including suggestions about providing basic psychoeducation to the patient in | pathways etc) | patients using antidepressants Accessing treatment (number of patients for whom a |
| | Mean age (years): 65.1 Sex (% female): | the intervention letter from the study team) | | psychiatric consultation was sought) |
| | 76 Ethnicity (% | Intensity: 3 sessions within 3 months | | |
| | BME): 51 | | | |
| Chen 2015 | N=326 | Simple collaborative care | Enhanced standard care | Length of follow- up (in weeks): 52 |
| RCT | Targeted group: Older adults (inclusion criteria | Collaborative- care depression | | Outcomes: • Accessing |
| Crimita | ≥60 years) Disorder: Depression (DSM-IV major depressive episode) | care management (included: training for physicians in use of treatment guidelines; medication algorithm; training for primary care | | treatment (number of patients for whom a psychiatric consultation was sought) |
| | Mean age (years): NR (median 70) | nurses to function as care managers; consultation with | | |
| | Sex (% female): 37 | psychiatrists as support) | | |
| | Ethnicity (% BME): NR | Intensity: 16 weekly sessions | | |
| Ciechanowski 2004 | N=138 | Simple collaborative care | Standard care | Length of follow- up (in weeks): 26 |
| RCT | Targeted group: Older adults (inclusion criteria | Program to Encourage | | Outcomes: • Uptake of |
| US | ≥60 years) Disorder: | Active, Rewarding Lives for Seniors | | treatment (number of participants |
| | Depression | (PEARLS). | | starting |

Table 4: Summary of included studies for Comparison 3: Collaborative care versus standard care/enhanced standard care for older adults

| Study | Population | Intervention | Comparison | Comments |
|---------------------------|---|---|---------------|--|
| | (DSM-IV minor depression or dysthymia) Mean age (years): 73 Sex (% female): 79 Ethnicity (% BME): 42 | Intervention included problem- solving treatment, social and physical activation, and potential recommendations to patients' physicians regarding antidepressant medications. All intervention cases were reviewed weekly or biweekly by the study psychiatrist during depression management team sessions. | | antidepressant treatment) |
| Gilbody 2017 RCT UK | N=705 Targeted group: Older adults (inclusion criteria ≥65 years) Disorder: Depression (DSM-IV subthreshold depression) Mean age (years): 77.3 Sex (% female): 42 Ethnicity (% BME): 1 | Simple collaborative care Collaborative care Positive Elders (care consisted of telephone support and session-by- session symptom monitoring to track treatment response; offer of BA; encouragement to continue medication [for participants already prescribed antidepressants]; primary care physicians encouraged to initiate medication only in response to increasing | Standard care | Length of follow- up (in weeks): 8 Outcomes: • Accessing treatment (number of patients using antidepressants) |

| Study | Dopulation | Intervention | Comparison | Commonto |
|---------------------------|---|--|--------------------------|--|
| Study | Population | Intervention depressive symptoms) Intensity: 8 weekly sessions (first session delivered face-to- face and subsequent sessions delivered via telephone) | Comparison | Comments |
| Unutzer 2002 RCT US | N=1901 Targeted group: Older adults (inclusion criteria ≥60 years) Disorder: Depression (DSM-IV major depression or dysthymia) Mean age (years): 71.2 Sex (% female): 35 Ethnicity (% BME): 23 | Complex collaborative care Improving Mood- Promoting Access to Collaborative Treatment (IMPACT) collaborative case management program (included: access to a depression care manager who was supervised by a psychiatrist and a primary care expert and who offered education, care management, and support of antidepressant management by the patient's primary care physician or PST- PC; individualized treatment plan including algorithm). | Standard care | Length of follow- up (in weeks): 52 Outcomes: • Accessing treatment (number of patients using antidepressants) • Satisfaction (number of patients rating depression care as 'excellent/very good') |
| BA: behavioural activati | on [.] BMF [.] black minorit | v ethnic: CES-D: center | r for enidemiologic stud | lies depression [.] |

BA: behavioural activation; BME: black minority ethnic; CES-D: center for epidemiologic studies depression; DSM: diagnostic statistical manual; HAMD: Hamilton depression rating scale; NR: not reported; PST-PC: problem solving treatment in primary care; RCT: randomised controlled trial; TAU: treatment as usual

| | had y vorodo dod | | га ыме роршацо | |
|-------------------|---|--|--|---|
| Study | Population | Intervention | Comparison | Comments |
| Chong 2012 RCT | N=197 Targeted group: | Culturally sensitive telepsychiatry | TAU (care received from usual providers) | Length of follow- up (in weeks): 26 |
| NOT | BME (Hispanic) | | , , | Outcomes: |
| US | Disorder: Depression (inclusion criteria: PHQ-9≥10 & MINI diagnosis of MDD; Baseline mean PHQ-9 = 17.8) Mean age (years): 43 Sex (% female): 11 Ethnicity (% BME): 100 | Clinic-based telepsychiatry using an online virtual meeting programme (addressed following factors to target access: language and cultural concerns [Hispanic psychiatrists provided intervention]; cost [patients were not asked to pay for any MH services provided in the clinic]) Intensity: Monthly sessions for 6 months (4 hours [1 hour for intake + 6 x 30-min follow-ups]) | | Accessing treatment (number of patients who made a mental health appointment) Accessing treatment (number of patients who made a primary care appointment) Accessing treatment (number of patients who used antidepressants) Uptake of treatment (mean number of completed mental health appointments) Uptake of treatment (mean number of completed mental health appointments) Uptake of treatment (mean number of completed primary care appointments) Satisfaction (Visit Specific Satisfaction Questionnaire [VSQ-9]) |

Table 5: Summary of included studies for Comparison 4: Culturally sensitive telepsychiatry versus treatment as usual for a BME population

BME: black minority ethnic; MDD: major depressive disorder; MH: mental health; MINI: mini-international neuropsychiatric interview; NR: not reported; PHQ-9: patient health questionnaire-9 item; RCT: randomised controlled trial; TAU: treatment as usual

Table 6: Summary of included studies for Comparison 5: Culturally-adapted CBT versus treatment as usual for a BME population

| Study | Population | Intervention | Comparison | Comments |
|------------|-----------------|--------------------------------|-------------------------------|---|
| Naeem 2015 | N=137 | Culturally- adapted CBT | TAU (typically medication and | Length of follow- up (in weeks): 13 |
| RCT | Targeted group: | | hospital visits) | |
| | BME (Pakistani) | Cultural | | Outcomes: |
| Pakistan | | adaptations included family | | Satisfaction (number of |

Depression in adults: Evidence review H FINAL (June 2022)

| Study | Population | Intervention | Comparison | Comments |
|-------|--|--|------------|---|
| | Disorder: Depression (ICD- 10 F32 or F33) Mean age (years): 31.7 Sex (% female): 40 Ethnicity (% BME): 100 | member involvement, initial focus on physical symptoms, Urdu translations of jargon, culturally appropriate homework assignments, use of folk stories and examples relevant to local religious beliefs. | | participants 'very satisfied' with treatment) |
| | | Intensity: 6 individual sessions + 2 family session | | |

BME: black minority ethnic; ICD: international classification of diseases; NR: not reported; RCT: randomised controlled trial; TAU: treatment as usual

Table 7: Summary of included studies for Comparison 6: Culturally adaptedmotivational enhancement therapy for antidepressants versus usual care for
a BME population

| Study | Population | Intervention | Comparison | Comments |
|---------------|---|---|--|---|
| Interian 2013 | N=50 | Culturally adapted | Usual care (delivered in | Length of follow- up (in weeks): 22 |
| RCT | Targeted group: BME (Latino) | motivational enhancement therapy for | community mental health centre, this | Outcomes: |
| US | Disorder: Depression (DSM-IV depression or dysthymia) Mean age (years): 40.6 Sex (% female): 24 Ethnicity (% BME): 94 | antidepressants (META) Focus groups explored Latino antidepressant adherence issues and reasons for nonadherence, and META adapted to account for identified cultural values. | approach included psychotherapy and pharmacotherapy in a naturalistic framework) | Uptake of treatment (antidepressant adherence score on medication event monitoring system [MEMS]) |
| | | hour sessions | | |

BME: black minority ethnic; DSM: diagnostic statistical manual; NR: not reported; RCT: randomised controlled trial

Table 8: Summary of included studies for Comparison 7: Telephone CBT versus enhanced usual care for a BME population (living in rural areas)

| Study | Population | Intervention | Comparison | Comments |
|------------------------|------------|---------------|--|--|
| Dwight-Johnson 2011 | N=101 | Telephone CBT | Enhanced usual care (any typically available | Length of follow- up (in weeks): 26 |

| Study | Population | Intervention | Comparison | Comments |
|--------------------|--|--|---|--|
| Study RCT US | Population Targeted group: BME (Latino patients living in rural areas) Disorder: Depression (PHQ-9 score ≥ 10) Mean age (years): 39.8 Sex (% female): 22 Ethnicity (% | Intervention CBT, translated into the Spanish language and checked for relevance to the local Latino context and culture. Intensity: 8x 45- 50min sessions | Comparison care for depression, patients were encouraged to talk with their primary care provider about depression) | Comments Outcomes: • Satisfaction (number reporting they were satisfied with the treatment provided) |
| | BME): 100 | | | |

BME: black minority ethnic; NR: not reported; PHQ-9: patient health questionnaire – 9 item; RCT: randomised controlled trial

Table 9: Summary of included studies for Comparison 8: Collaborative care versus enhanced standard care for BME population

| Study | Population | Intervention | Comparison | Comments |
|------------------------------|---|--|---|---|
| Lagomasino 2017 RCT US | Population N=400 Targeted group: BME (Latino) Disorder: Depression (PHQ-9 score ≥ 10) Mean age (years): 49.6 Sex (% female): 17 Ethnicity (% BME): 97 | InterventionTailored collaborative care interventionIncludes: bilingual case managers; culturally-adapted CBT, available in Spanish, and | Comparison Enhanced usual care (patients received information about depression and primary care provider informed of diagnosis) | Comments Length of follow- up (in weeks): 16 Outcomes: • Accessing treatment (number of patients receiving antidepressants) • Accessing treatment (number of patients receiving minimally adequate treatment [counselling or medications]) • Satisfaction (number of patients satisfied or very satisfied with emotional health care) |
| RME: black minority eth | nia: ND: not reported: I | 240 0: notiont boolth a | unationnaire Oitami | , |

BME: black minority ethnic; NR: not reported; PHQ-9: patient health questionnaire – 9 item; RCT: randomised controlled trial

| conaborative care versus standard conaborative care for BME population | | | | |
|--|---|--|--|--|
| Study | Population | Intervention | Comparison | Comments |
| Cooper 2013 | N=132 | Culturally sensitive | Standard collaborative care | Length of follow- up (in weeks): 52 |
| RCT | Targeted group: BME (African | collaborative care | intervention for patients (disease | Outcomes: |
| US | American) Disorder: Depression (DSM-IV MDD) Mean age (years): 46.5 Sex (% female): 21 Ethnicity (% BME): 100 | Patient-centred and culturally tailored collaborative care intervention for patients (care management focused on access barriers, social context, and patient– provider relationships) and clinicians (participatory communication skills training and mental health consultation) | management) and clinicians (review of guidelines and mental health consultation) Intensity: Variable | Accessing treatment (number of patients taking any antidepressant) Accessing treatment (number of patients receiving any counselling) Accessing treatment (number of patients receiving guideline- |
| | | Intensity: Variable | | concordant depression treatment) |

Table 10: Summary of included studies for Comparison 9: Culturally sensitive collaborative care versus standard collaborative care for BME population

BME: black minority ethnic; DSM: diagnostic statistical manual; MDD: major depressive disorder; NR: not reported; RCT: randomised controlled trial

Table 11: Summary of included studies for Comparison 10: Remote treatment versus face-to-face treatment for a predominantly male population

| | | Intervention | | Commonto |
|------------------|--|---|--|--|
| Study | Population | Intervention | Comparison | Comments |
| Luxton 2016 | N=121 | Behavioural activation in- home via | Behavioural activation in- | Length of follow- up (in weeks): 8 |
| RCT | Targeted group: Men (veterans) | videoconferencin g | person | Outcomes: |
| US | Disorder: Depression (DSM-IV minor or major depressive disorder) Mean age (years): NR Sex (% female): 82 Ethnicity (% | Intensity: 8x 50- 60-min weekly sessions | Intensity: 8x 50- 60-min weekly sessions | Satisfaction (Client Satisfaction Questionnaire [CSQ]) |
| | BME): 30 | | | |
| Yuen 2015 RCT | N=52 | Prolonged exposure through home-based telehealth | Prolonged exposure through standard in- | Length of follow- up (in weeks): 12 |

| Study | Population | Intervention | Comparison | Comments |
|-------|---|-----------------------------|------------------------------|--|
| US | Targeted group: Men (veterans) | Intensity: 8-12 sessions | person office- based care | Outcomes: • Satisfaction (number of |
| | Disorder: PTSD & depression symptoms (inclusion criteria DSM-IV-TR PTSD; 42% comorbid depression diagnosis, and mean depression symptoms above clinical cut-off) Mean age (years): 44.0 Sex (% female): 98 Ethnicity (% BME): 46 | | Intensity: 8-12 sessions | patients satisfied/very satisfied with treatment) |

BME: black minority ethnic; DSM: diagnostic statistical manual; NR: not reported; PTSD: post-traumatic stress disorder; RCT: randomised controlled trial

Table 12: Summary of included studies for Comparison 11: Collaborative care versus standard care/enhanced standard care for a predominantly male population

| Study | Population | Intervention | Comparison | Comments |
|--------------|---|---|---------------|---|
| Dobscha 2006 | N=375 | Collaborative care | Standard care | Length of follow- up (in weeks): 52 |
| RCT US | Targeted group: Men (veterans) Disorder: Depression (inclusion criteria: PHQ-9 = 10-25 or SCL-20 score≥1.0; baseline mean PHQ-9 = 13.8; 49% MDD diagnosis criteria and 47% dysthymia) Mean age (years): 56.8 Sex (% female): 93 Ethnicity (% BME): 3 | Depression decision support team (1 psychiatrist + 1 nurse care manager) provided 1 early patient educational contact and depression monitoring with feedback to clinicians (includes the following add-ons to usual care: care manager makes telephone call to patient and patient encouraged to attend depression education class; | | Outcomes: • Accessing treatment (number who attended ≥1 appointment with mental health specialist) • Accessing treatment (number of participants using antidepressants) |

| Study | Population | Intervention | Comparison | Comments |
|--------------|--|--|------------------------|---|
| | | review of patient progress by depression decision support team; feedback or suggestions to primary care clinician or nurse; psychiatrist consultation actively offered or suggested; facilitated referral to other mental health services when indicated) Intensity: Monitoring with feedback to clinicians over 12 months (1 psychiatrist assigned up to 4 hours/week and 1 nurse care manager | | |
| | | assigned up to 8 hours/week) | | |
| Fortney 2007 | N=395 | Collaborative care | Enhanced standard care | Length of follow- up (in weeks): 52 |
| RCT US | Targeted group: Men (veterans) Disorder: Depression (PHQ 9 score ≥ 12) Mean age (years): 59.2 Sex (% female): 92 Ethnicity (% BME): 25 | Telemedicine Enhanced Antidepressant Management (TEAM), a telemedicine- based collaborative care model adapted for small clinics without onsite psychiatrists. Included a stepped-care model of depression treatment. Intensity: 14 sessions (follow- up encounters to monitor symptoms, medication adherence, and side effects were scheduled every | | Outcomes: • Accessing treatment (number of participants using antidepressants) • Satisfaction (number of patients satisfied with care) |

| Study | Population | Intervention | Comparison | Comments |
|---------------------------|---|---|---|---|
| | | 2 weeks during acute treatment and every 4 weeks during watchful waiting or continuation treatment) | Companion | |
| Hedrick 2003 RCT US | N=354 Targeted group: Men (veterans) Disorder: Depression (DSM-IV current MDD episode, dysthymia or both) Mean age (years): 57.2 Sex (% female): 95 Ethnicity (% BME): 20 | Collaborative care Mental health team: provided a treatment plan to the primary care provider; telephoned patients to support adherence to the plan; reviewed treatment results; suggested modifications to the provider. Intensity: 3-month study period (collaborative care team met weekly to develop treatment plans and to conduct a 6- and 12-week progress evaluation for each patient; patients were discussed in the team meeting on an average of 3 occasions) | Consultant-liaison care (study clinicians informed the primary care provider of the diagnosis and facilitated referrals to psychiatry residents practicing in the primary care clinic) | Length of follow- up (in weeks): 13 Outcomes: • Accessing treatment (number who attended ≥1 appointment with mental health specialist) • Accessing treatment (number who have had a depression- related primary care visit) • Accessing treatment (number of participants using antidepressants) |

BME: black minority ethnic; DSM: diagnostic statistical manual; MDD: major depressive disorder; NR: not reported; PHQ-9: patient health questionnaire – 9 item; RCT: randomised controlled trial; SCL-20: symptom checklist depression scale

See the full evidence tables in appendix D and the forest plots in appendix E.

Quality assessment of clinical outcomes included in the evidence review

See the clinical evidence profiles in appendix F.

Economic evidence

Included studies

A single economic search was undertaken for all topics included in the scope of this guideline but no economic studies were identified which were applicable to this review question. See the literature search strategy in appendix B and economic study selection flow chart in appendix G.

Excluded studies

A list of excluded economic and utility studies, with reasons for exclusion, is provided in supplement 3 - Health economic included & excluded studies

Economic model

No economic modelling was undertaken for this review because the committee agreed that other topics were higher priorities for economic evaluation.

Evidence statements

Clinical evidence statements

Interventions to promote access for older adults

Comparison 1. Tele-problem solving therapy versus in-person problem solving therapy for older adults

Important outcomes

Satisfaction

• Low quality evidence from 1 RCT (N=85) shows a clinically important and statistically significant benefit of tele-problem solving therapy, relative to in-person problem solving, on treatment acceptance scores for older adults with depression.

Comparison 2. Co-located services versus geographically separate services for older adults

Critical outcomes

Proportion of people from the target group who access treatment

 Moderate quality evidence from 1 RCT (N=1297) shows a clinically important and statistically significant benefit of co-located services, relative to geographically separate services, on the number of people who attended an appointment with a mental health provider for older adults with depression.

Uptake of treatment

• Moderate quality evidence from 1 RCT (N=1390) shows a statistically significant but not clinically important benefit of co-located services, relative to geographically separate services, on the number of treatment visits for older adults with depression.

Comparison 3. Collaborative care versus standard care/enhanced standard care for older adults

Critical outcomes

Proportion of people from the target group who access treatment

- Very low quality evidence from 3 RCTs (N=2449) shows a clinically important but not statistically significant benefit of collaborative care, relative to standard care, on the number of older adults with depression who were using antidepressants.
- Very low quality evidence from 2 RCTs (N=501) shows a clinically important but not statistically significant benefit of collaborative care, relative to standard care or enhanced standard care, on the number of older adults with depression for whom a psychiatric consultation was sought.

Uptake of treatment

• Very low quality evidence from 1 RCT (N=138) shows a clinically important but not statistically significant benefit of collaborative care, relative to standard care, on the number of older adults with depression starting antidepressant treatment.

Important outcomes

Satisfaction

 Moderate quality evidence from 1 RCT (N=1364) shows a clinically important and statistically significant benefit of collaborative care, relative to standard care, on the number of older adults with depression who rated depression care as 'excellent/very good'.

Interventions to promote access for BME groups

Comparison 4. Culturally sensitive telepsychiatry versus treatment as usual for a BME population

Critical outcomes

Proportion of people from the target group who access treatment

- Moderate quality evidence from 1 RCT (N=167) shows a clinically important and statistically significant benefit of culturally sensitive telepsychiatry, relative to treatment as usual, on the number of Hispanic people with depression who made a mental health appointment.
- Low quality evidence from 1 RCT (N=167) shows a clinically important and statistically significant benefit of treatment as usual, relative to culturally sensitive telepsychiatry, on the number of Hispanic people with depression who made a primary care appointment.
- Low quality evidence from 1 RCT (N=167) shows a clinically important and statistically significant benefit of culturally sensitive telepsychiatry, relative to treatment as usual, on the number of Hispanic people with depression who used antidepressants.

Uptake of treatment

- Low quality evidence from 1 RCT (N=106) shows neither a clinically important nor statistically significant benefit of culturally sensitive telepsychiatry, relative to treatment as usual, on the mean number of completed mental health appointments for Hispanic people with depression.
- Moderate quality evidence from 1 RCT (N=132) shows neither a clinically important nor statistically significant benefit of culturally sensitive telepsychiatry, relative to treatment as

usual, on the mean number of completed primary care appointments for Hispanic people with depression.

Important outcomes

Satisfaction

• Moderate quality evidence from 1 RCT (N=167) shows neither a clinically important nor statistically significant benefit of culturally sensitive telepsychiatry, relative to treatment as usual, on satisfaction scores for Hispanic people with depression.

Comparison 5. Culturally-adapted CBT versus treatment as usual for a BME population

Important outcomes

Satisfaction

• Very low quality evidence from 1 RCT (N=137) shows a clinically important and statistically significant benefit of culturally-adapted CBT, relative to treatment as usual, on the number of Pakistani people with depression who were 'very satisfied' with treatment.

Comparison 6. Culturally adapted motivational enhancement therapy for antidepressants versus usual care for a BME population

Critical outcomes

Uptake of treatment

• Moderate quality evidence from 1 RCT (N=50) shows a clinically important and statistically significant benefit of culturally adapted motivational enhancement therapy for antidepressants, relative to usual care, on the antidepressant adherence score for Latino people with depression.

Comparison 7. Telephone CBT versus enhanced usual care for a BME population (living in rural areas)

Important outcomes

Satisfaction

 Very low quality evidence from 1 RCT (N=101) shows a clinically important and statistically significant benefit of telephone CBT, relative to enhanced usual care, on the number of Latino people with depression (living in rural areas) who reported that they were satisfied with the treatment provided.

Comparison 8. Collaborative care versus enhanced standard care for BME population

Critical outcomes

Proportion of people from the target group who access treatment

- Moderate quality evidence from 1 RCT (N=329) shows a clinically important and statistically significant benefit of collaborative care, relative to enhanced standard care, on the number of Hispanic people with depression who were receiving antidepressants.
- Moderate quality evidence from 1 RCT (N=327) shows a clinically important and statistically significant benefit of collaborative care, relative to enhanced standard care, on the number of Hispanic people with depression who were receiving minimally adequate treatment (counselling or medications).

Important outcomes

Satisfaction

 Moderate quality evidence from 1 RCT (N=330) shows a clinically important and statistically significant benefit of collaborative care, relative to enhanced standard care, on the number of Hispanic people with depression who were satisfied or very satisfied with emotional health care.

Comparison 9. Culturally sensitive collaborative care versus standard collaborative care for BME population

Critical outcomes

Proportion of people from the target group who access treatment

- Very low quality evidence from 1 RCT (N=113) shows a clinically important but not statistically significant benefit of standard collaborative care, relative to culturally sensitive collaborative care, on the number of African American people with depression who were taking any antidepressant.
- Very low quality evidence from 1 RCT (N=113) shows a clinically important but not statistically significant benefit of standard collaborative care, relative to culturally sensitive collaborative care, on the number of African American people with depression who were receiving any counselling.
- Very low quality evidence from 1 RCT (N=113) shows a clinically important and statistically significant benefit of standard collaborative care, relative to culturally sensitive collaborative care, on the number of African American people with depression who were receiving guideline-concordant depression treatment.

Interventions to promote access for LGBT groups

No evidence was identified for interventions to promote access for LGBT groups.

Interventions to promote access for men

Comparison 10. Remote treatment versus face-to-face treatment for a predominantly male population

Important outcomes

Satisfaction

- Low quality evidence from 1 RCT (N=52) shows neither a clinically important nor statistically significant difference between remote and face-to-face prolonged exposure treatment on the number of people who were satisfied/very satisfied with treatment, amongst a predominantly male (veteran) population with PTSD and depression symptoms.
- Very low quality evidence from 1 RCT (N=87) shows neither a clinically important nor statistically significant difference between remote and face-to-face behavioural activation, on treatment satisfaction scores for a predominantly male (veteran) population with depression.

Comparison 11. Collaborative care versus standard care/enhanced standard care for a predominantly male population

Critical outcomes

Proportion of people from the target group who access treatment

- Very low quality evidence from 2 RCTs (N=729) shows neither a clinically important nor statistically significant benefit of collaborative care, relative to standard care or consultantliaison care, on the number of people who attended at least 1 appointment with a mental health specialist for a predominantly male (veteran) population with depression.
- Very low quality evidence from 1 RCT (N=354) shows a clinically important and statistically significant benefit of collaborative care, relative to consultant-liaison care, on the number of people who had a depression-related primary care visit for a predominantly male (veteran) population with depression.
- Very low quality evidence from 3 RCTs (N=868) shows a statistically significant but not clinically important benefit of collaborative care, relative to standard care or enhanced standard care, on the number of people using antidepressants for a predominantly male (veteran) population with depression.

Important outcomes

Satisfaction

• Very low quality evidence from 1 RCT (N=325) shows neither a clinically important nor statistically significant benefit of collaborative care, relative to enhanced standard care, on the number of people satisfied with care for a predominantly male (veteran) population with depression.

Economic evidence statements

No economic evidence was identified which was applicable to this review question.

The committee's discussion of the evidence

Interpreting the evidence

The outcomes that matter most

As this question was about improving access to services and treatment for certain groups of people with depression, the committee identified that the proportion of people from the target groups who access treatment, and the uptake of treatment were the critical outcomes. This was measured in most studies as the number of people who attended appointments (either any appointment, a minimum number, or if they completed a series of sessions), or who commenced treatment such as antidepressants.

As satisfaction with treatment is likely to lead to improved uptake and adherence, satisfaction with treatment (or preference), and anxiety about treatment were identified by the committee as important outcomes.

The quality of the evidence

The quality of evidence for outcomes was assessed using GRADE and ranged from moderate to very low.

The evidence for this review generally came from single RCTs, some of which had small sample sizes. The evidence was generally directly applicable to the groups of interest (BME,

male, older people) with depression. Some of the evidence relevant to promoting access for men was conducted in predominantly male veteran populations who have specific healthcare provision, and issues relating to access may not be applicable to the UK setting, and this was reflected in the indirectness ratings.

There was no evidence identified for interventions to promote access for LGBT groups.

Benefits and harms

Although the subject of the review had been focused on improving access for specific groups who may find obtaining treatment more difficult, the committee agreed that it was important to ensure good access for all people with depression. The committee therefore drew on their own knowledge and experience and the successes of the national roll out of the Improving Access to Psychological Therapies (IAPT) programme. The IAPT programme had shown that the development of accessible systems for the delivery of care are associated with improved uptake of services. The committee therefore agreed that treatment pathways should be accessible to people with depression, with multiple entry points (for example, self-referral, GP referral), allow for prompt assessment and be integrated across primary and secondary care, to share information and so provide a coordinated service.

The committee noted that such systems, based on models such as stepped care, would promote effective access to and delivery of treatment for people with depression and therefore developed recommendations that specified what the care pathways should include and achieve. The committee were aware of work emanating from the NHS long-term plan which suggested that care should be locality-based and integrated across all aspects of health and social care, as well as with other agencies such as education, housing and the voluntary and social enterprise sector, and so made recommendations to advise this. The committee also agreed that in order to ensure that these pathways worked as intended it was necessary to monitor access, uptake and outcomes. The committee also recognised that mental health services for people with depression were delivered by a wide range of practitioners in a wide range of settings, but that integration between these services and settings was essential, and so made a recommendation to state this.

There was no evidence from this review for stepped care, but the committee agreed that this model was well accepted and understood and so included it as an option. They also discussed that in light of the additions to the guideline about taking into account patient choice, patient preferences and other factors that may influence the choice of treatment such as severity of depression and previous treatment history, a preferred term may be 'matched care'. There was, however, evidence for the benefits of collaborative care in terms of uptake of treatment and satisfaction with care for older adults, black, Asian and minority ethnic groups and men. Based on this evidence, and the evidence for clinical benefits associated with collaborative care (see Evidence review A), the committee recommended that services should be delivered using collaborative care, but noted that separate recommendations on collaborative care had already been made, based on the evidence review on service delivery.

The committee were aware that access to services could be hindered by a lack of appropriate and accessible information, and so, based on their own awareness of accessibility issues, they made a separate recommendation to highlight that information to help people access services should be available in a variety of formats, languages and culturally adapted where necessary.

The committee agreed that the symptoms of depression itself and the impact of stigma can make it difficult for people with depression to access mental health services or take up offers of treatment, and recommended that steps are taken locally to reduce stigma, discrimination and barriers to access for individuals seeking help for depression. The committee agreed that this was such an important principle that they included this in the amended recommendations at the very beginning of the guideline which covers over-arching principles of care.

The committee discussed the evidence from this review and noted that a number of the interventions reviewed may have clinical benefits both directly, in terms of increased uptake of treatment, and indirectly in terms of greater satisfaction, which may in turn lead to better ongoing engagement with services. There was evidence for benefits, in terms of uptake and acceptance of treatment, associated with delivering interventions using different methods in order to promote access, for example using telephone delivery of treatment or services to older adults or black, Asian or minority ethnic groups. The committee discussed that, in addition to the telephone, there is now an increased use of other methods of communication in the NHS, particularly since the Covid-19 pandemic. This can include text messages, emails or video consultations. While this is welcomed by many people, the committee also discussed the importance of patient choice and problems associated with digital exclusion or digital poverty: some people may prefer a face-to-face intervention either because they are not comfortable using technology, because they lack the appropriate device or internet connection, lack a private and confidential space, or because of wider issues associated with difficulties in accessing services that intersect with the vulnerable groups identified in this review. The committee therefore recommended interventions be available via a range of different methods, and the methods of delivery should be guided by patient choice, with remote consultations only being used for people who wish to access and are able to access services in this way.

There were also benefits associated with culturally adapted interventions or services on treatment uptake, engagement, and satisfaction for black, Asian and minority ethnic groups, and the committee agreed to recommend that services be delivered in culturally appropriate or culturally adapted language and formats, and that access to bilingual therapists or independent translators is available. However, the committee noted the importance of not being overly prescriptive in terms of the specific nature of adaptations so that the specific access needs of the local population could be most appropriately identified and addressed.

The committee discussed the current drive within the NHS to provide services outside of standard working hours. The committee noted the absence of evidence included in this review for potential clinical benefits or cost-effectiveness of this modification, and were aware that service-level data on uptake is mixed. However, practitioners have found evening appointments to be popular with patients, and based on consensus opinion the committee recommended that services should be available outside normal working hours in order to promote access and increased uptake of services for people with depression.

For older people, there was evidence that co-locating mental health services with physical health services in a primary care setting improved engagement with depression treatment. Based on their knowledge and experience the committee also noted that providing services at home or in community centres or care homes could promote access to services for older adults and other groups of people with depression. The committee agreed that services should be provided in community-based settings where appropriate, and integrated services that are designed to meet the needs of the local population should be available.

The committee reflected on the limited evidence base for interventions to promote access for the target groups identified in this review, particularly for LGBT groups, and highlighted the importance of the third sector in promoting access. Based on their expert opinion, the committee recommended that services be delivered jointly with charities or the voluntary sector.

The committee discussed whether it was possible to make recommendations tailored specifically to each of the target groups (identified in the review) that would improve access to treatment and services for depression. However, given the limited evidence available and the overarching themes and principles, the committee thought it more appropriate to make general recommendations on what should be done to promote access and increased uptake

of services. The committee did, however, highlight particular groups who may have difficulty in accessing, or face stigma when taking up, some or all mental health services including the target groups from the evidence review (men; older people; LGBT people; people from Black, Asian and minority ethnic communities) and other groups that the committee were aware may face particular issues with access (people with learning disabilities or acquired cognitive impairments; people with physical or sensory disabilities; people who have conditions which compromise their ability to communicate; asylum seekers). The committee recognised that religion and faith cannot be conflated with culture or ethnicity but did not have any evidence about the impact of depression or lack of access to services for any particular religious or faith groups. They therefore agreed to keep broader recommendations about avoiding discrimination and promoting access that would apply to all minority groups.

The committee noted, despite concerns about depression and suicide in younger men, that no evidence had been identified for interventions to increase access for this particular group. In the absence of evidence about what may be effective for this group the committee were wary of making specific recommendations for practice using consensus. They agreed, however, that the recommendations made should improve access for younger men too.

In light of the limited evidence the committee decided to make a research recommendation to help identify the most effective and cost-effective methods to promote increased access to, and uptake of, interventions for people with depression who are under-served and under-represented in current services.

Cost effectiveness and resource use

No evidence on the cost-effectiveness of service developments and interventions that have been specifically designed to promote access to services for vulnerable groups of adults with, or at risk of, depression was identified and no further economic analysis was undertaken.

The committee acknowledged that enhanced accessibility to services and integrated delivery of services for people with depression across primary and secondary care are likely to have considerable resource implications. The committee noted, however, that facilitating timely access to effective and cost-effective NICE-recommended treatments for depression results in more efficient use of resources and better outcomes for service users; moreover, there may be significant cost-savings for the NHS and social care as delayed or poorly co-ordinated treatment may negate the need for more costly intensive treatments for entrenched or chronic depressive symptoms. The committee noted that availability of services outside normal hours (evenings/weekends) is already established and would not entail significant resource implications.

The committee also acknowledged that routine collection of data on access to, uptake of, and outcomes of the interventions in the pathway is likely to have moderate resource implications. However, they expressed the opinion that routine collection of such data will allow more effective planning, delivery and evaluation of services, leading to more efficient use of resources and enhanced equality within and across services.

Other factors the committee took into account

In developing the recommendations to promote access for these target groups, the committee also took into account the qualitative evidence from the review on treatment choice (Evidence review I). This increased the confidence in the recommendations as these were supported by themes arising from the experiences of people with depression in terms of accessing treatment and services.

Recommendations supported by this evidence review

This evidence review supports recommendations 1.16.1 to 1.16.6 and research recommendations in the NICE guideline.

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Appendices

Appendix A – Review protocols

Review protocol for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

| Field (based on PRISMA-P) | Content |
|---------------------------|--|
| Review question | RQ3.0 For adults (18 years and older) at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, BME groups, LGBT groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care? |
| Type of review question | Intervention review |
| Objective of the review | To identify the most effective service developments and interventions which are specifically designed to promote access |
| Population | Adults (18 years and older) identified as at risk of depression (or anxiety disorders*) from the following vulnerable groups Older adults BME groups LGBT groups Men *Note: due to limited depression specific evidence, a broader evidence base (including anxiety disorders) will be used. An update of the review conducted for the Common Mental Health Disorders NICE guideline will be undertaken |
| Exclude | Trials of people with depression where the population does not fall into one of the particular vulnerable groups that are the focus of this review (older people, BME groups, LGBT groups and men) |

| Field (based on <u>PRISMA-P)</u> | Content |
|----------------------------------|--|
| | Trials of women with antenatal or postnatal depression |
| | Trials of children and young people (mean age under 18 years) |
| | Trials of people with learning disabilities |
| | Trials of adults in contact with the criminal justice system (not solely as a result of being a witness or victim) Trials that specifically recruit participants with a physical health condition in addition to depression (e.g. depression in people with diabetes) |
| Intervention | Service developments or changes which are specifically designed to promote access. Specific models of service delivery (that is, community-based outreach clinics, clinics or services in non-health settings). |
| | Methods designed to remove barriers to access (including stigma, misinformation or cultural beliefs about the nature of mental disorder) |
| Comparison | Standard care |
| Outcomes and prioritisation | Critical outcomes: |
| | Proportion of people from the target group who access treatment |
| | Uptake of treatment |
| | Important but not critical outcomes: |
| | Satisfaction, preference |
| | Anxiety about treatment |
| Study design | • RCTs |
| | Systematic reviews of RCTs |
| Include unpublished data? | Conference abstracts, dissertations and unpublished data will not be included unless the data can be extracted from elsewhere (for instance, from the Common Mental Health Disorders guideline) |
| Restriction by date | All relevant studies from existing reviews from the Common Mental Health Disorders guideline and from previous searches (pre-2016) will be carried forward. No restriction on date for the updated search (due to the addition of the LGBT groups since the original search was run), studies published between database inception and the date the searches are run will be sought. |
| Minimum sample size | N = 10 in each arm |

| Field (based on PRISMA-P) | Content |
|---------------------------|--|
| Study setting | Primary, secondary, tertiary and social care settings. Non-English-language papers will be excluded (unless data can be obtained from an existing review). |
| The review strategy | Data Extraction (selection and coding) Citations from each search will be downloaded into EndNote and duplicates removed. Titles and abstracts of identified studies will be screened by two reviewers for inclusion against criteria, until a good inter-rater reliability has been observed (percentage agreement =>90%). Initially 10% of references will be double-screened. If inter-rater agreement is good then the remaining references will be screened by one reviewer. All primary-level studies included after the first scan of citations will be acquired in full and re-evaluated for eligibility at the time they are being entered into a study database (standardised template created in Microsoft Excel). At least 10% of data extraction will be double-coded. Discrepancies or difficulties with coding will be resolved through discussion between reviewers or the opinion of a third reviewer will be sought. |
| | Data Analysis A meta-analysis using a random-effects model will be conducted to combine results from similar studies. An intention to treat (ITT) approach will be taken where possible. |
| | Risk of bias will be assessed at the study level using the Cochrane risk of bias tool. This assessment includes: adequacy of randomisation (sufficient description of randomisation method, allocation concealment and any baseline difference between groups); blinding (of participants, intervention administrators and outcome assessors); attrition ('at risk of attrition bias' defined as a dropout of more than 20% and completer analysis used, or a difference of >20% between the groups); selective reporting bias (is the protocol registered, are all outcomes reported); other bias (for instance, conflict of interest in funding). |
| | Risk of bias will also be assessed at the outcome level using GRADE. For heterogeneity, outcomes will be downgraded once if $l^2>50\%$, twice if $l^2>80\%$. For imprecision, outcomes will be downgraded using rules of thumb. If the 95% CI is imprecise i.e. crosses the line of no effect and the threshold for clinical benefit/harm, 0.8 or 1.25 (dichotomous) or -0.5 or 0.5 SMD (for continuous), the outcome will be downgraded. Outcomes will be downgraded one or two levels depending on how many lines it crosses. If the 95% CI is not imprecise, we will consider whether the criterion for Optimal Information Size is met (for dichotomous outcomes, 300 events; for continuous outcomes, 400 participants), if not we will downgrade one level. |
| Heterogeneity | Where possible, the influence of the following subgroups will be considered: |

| Field (based on PRISMA-P) | Content |
|---|---|
| (sensitivity analysis and subgroups) | Different subgroups within the LGBT category |
| | Different subgroups within the BME category |
| Data management (software) | Endnote was used to sift through the references identified by the search, and Excel for data extraction Pairwise meta-analyses and production of forest plots was done using Cochrane Review Manager (RevMan5). 'GRADEpro' was used to assess the quality of evidence for each outcome. |
| Information sources – databases and dates | Databases: Embase 1980 to 2019 Week 13, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to April 02, 2019, PsycINFO 1806 to March Week 4 2019 The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 4 of 12, April 2019; Cochrane Central Register of Controlled Trials, Issue 4 of 12, April 2019 HE - Database(s): Embase 1980 to 2019 Week 08, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to February 26, 2019, PsycINFO 1806 to February Week 1 2019 NIHR Centre for Reviews and Dissemination: Health Technology Assessment Database (HTA) |
| | CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937-current, EBSCO Host |
| Identify if an update | Update of CG90 (2009) |
| Author contacts | For details please see the guideline in development web site. |
| Highlight if amendment to previous protocol | For details please see section 4.5 of <u>Developing NICE guidelines: the manual 2014</u> |
| Search strategy – for one database | For details please see appendix B. |
| Data collection process – forms/duplicate | A standardised evidence table format will be used, and published as appendix D (clinical evidence tables) or H (economic evidence tables). |
| Data items – define all variables to be collected | For details please see evidence tables in appendix D (clinical evidence tables) or H (economic evidence tables). |
| Methods for assessing bias at outcome/study level | Standard study checklists were used to critically appraise individual studies. For details please see section 6.2 of <u>Developing NICE guidelines: the manual 2014.</u> |
| | The risk of bias across all available evidence was evaluated for each outcome using an adaptation of the 'Grading of Recommendations Assessment, Development and Evaluation (GRADE) toolbox' developed by the international GRADE working group <u>http://www.gradeworkinggroup.org/.</u> |
| Criteria for quantitative synthesis | For details please see section 6.4 of Developing NICE guidelines: the manual 2014 |

| Field (based on <u>PRISMA-P)</u> | Content |
|---|--|
| Methods for quantitative analysis – combining studies and exploring (in)consistency | For details please see the methods chapter |
| Meta-bias assessment – publication bias, selective reporting bias | For details please see section 6.2 of <u>Developing NICE guidelines: the manual 2014</u> . |
| Confidence in cumulative evidence | For details please see sections 6.4 and 9.1 of Developing NICE guidelines: the manual 2014 |
| Rationale/context – what is known | For details please see the introduction to the evidence review. |
| Describe contributions of authors and guarantor | A multidisciplinary committee developed the evidence review. The committee was convened by the National Guideline Alliance (NGA) and chaired by Dr Navneet Kapur in line with section 3 of <u>Developing NICE</u> guidelines: the manual 2014. |
| | Staff from the NGA undertook systematic literature searches, appraised the evidence, conducted meta-analysis and cost effectiveness analysis where appropriate, and drafted the guideline in collaboration with the committee. For details please see the methods chapter. |
| Sources of funding/support | The NGA is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists. |
| Name of sponsor | The NGA is funded by NICE and hosted by the Royal College of Obstetricians and Gynaecologists. |
| Roles of sponsor | NICE funds NGA to develop guidelines for those working in the NHS, public health and social care in England |
| PROSPERO registration number | Not applicable |

BAME/BME: black, Asian, minority, ethnic; CI: confidence interval; GRADE: Grading of Recommendations Assessment, Development and Evaluation; ITT: intention to treat; LGBT: lesbian, gay, bisexual, transgender/transsexual; MID: minimally important difference; NGA: National Guideline Alliance; N: number of participants; NHS: National health service; NICE: National Institute for Health and Care Excellence; RCT: randomised controlled trial; RoB: risk of bias; SD: standard deviation; SMD: standardised mean difference

Appendix B – Literature search strategies

Literature search strategies for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Clinical search

Database(s): Embase 1974 to 2019 Week 13, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to April 02, 2019, PsycINFO 1806 to March Week 4 2019

Date of search: 03/04/2019

Search updated: 03/03/2021

| # | Searches | | |
|----|--|--|--|
| 1 | (exp anxiety disorders/ or body dysmorphic disorder/ or exp depression/ or mental stress/) use oemezd | | |
| 2 | (anxiety/ or exp anxiety disorders/ or body dysmorphic disorders/ or exp compulsive behavior/ or depression/ or exp depressive disorder/ or panic/ or stress, psychological/) use ppez | | |
| 3 | (anxiety/ or anxiety management/ or exp anxiety disorders/ or panic attack/ or performanice anxiety/ or social anxiety/ or speech anxiety/ or test anxiety/ or body dysmorphic disorder/ or panic/ or exp depression/ or atypical depression/ or "depression (emotion)"/ or psychological stress/) use psyh | | |
| 4 | (anxiet* or anxious* or body dysmorphi* or dysmorphophobi* or (combat adj (disorder* or fatigue or neuros* or syndrome*)) or concentration camp syndrome or torture syndrome or war neuros* or (rape adj2 trauma*) or flash back* or flashback* or posttrauma* or post trauma* or ptsd or railway spine or re experienc* or reexperienc* or (trauma* and (avoidance or grief or horror or death* or nightmare* or night mare* or emotion*)) or depress* or dysphori* or dysthymi* or melanchol* or seasonal affective disorder* or clean response* or compulsi* or obsession* or obsessive* or ocd or recur* thought* or panic* or agoraphobi* or claustrophobi* or phobi* or ((extreme or trauma*)) or psychotrauma* or stress disorder* or ((acute or chronic* or extreme or incessant* or intense* or persistent* or serious* or sever*) adj2 (apprehens* or doom or fear* or terror*)) or hypervigil*).tw. | | |
| 5 | (healthcare or health care or (mental adj (disorder* or health)) or primary care).tw. | | |
| 6 | or/1-5 | | |
| 7 | (health care access/ or health disparity/ or health care utilization/) use oemezd or (health promotion/ use oemezd and (access* or barrier* or disparit* or equity or inequit* or inequalit*)).tw. | | |
| 8 | (health services accessibility/ or healthcare disparities/ or health status disparities/) use ppez or (exp health promotion/ use ppez and (access* or barrier* or disparit* or equity or inequit* or inequalit*).tw.) or (ut.fs. and (care or health care or healthcare or service*).hw.) | | |
| 9 | (health care delivery/ or treatment barriers/ or health care utilization/ or health disparities/) use psyh or (health promotion/ use psyh and (access* or barrier* or disparit* or equity or inequit* or inequalit*).tw.) | | |
| 10 | ((access* or barrier* or disparit* or equity or inequit* or inequalit*) adj4 (care or clinical practice or detect* or diagnos* or health* or interven* or medication* or medicine* or program* or psychotherap* or recogni* or referral* or service* or therap* or treat*)).tw. | | |
| 11 | (((health adj (care or service)) or healthcare) adj2 (need*1 or use*1 or using or utilis* or utiliz*)).tw. | | |
| 12 | ((barrier* or disparit* or equity or hinder* or hindran* or hurdle* or imped* or improv* or inequit* or inequalit* or obstacle* or obstruct* or prevent* or promot* or reluctan* or restrict* or uptake or utiliz* or utilis* or vulnerable) adj3 access*).tw. | | |
| 13 | ((access or barrier) adj research*).tw. | | |
| 14 | ((behavio?r* or helpseek* or help seek* or system*) adj2 barrier*).tw. | | |
| 15 | or/7-14 | | |
| 16 | "translating (language)"/ use oemezd or translating/ use ppez or foreign language translation/ use psyh or (translate* or translating or translator*).tw. | | |
| 17 | 15 or 16 | | |
| 18 | (exp african/ or exp aged/ or ancestry group/ or exp asian/ or asian american/ or asian continental ancestry group/ or exp black person/ or british asian/ or exp *"caribbean (person)"/ or exp central american/ or cultural anthropology/ or cultural competence/ or cultural deprivation/ or exp elderly care/ or exp "ethnic or racial aspects"/ or exp ethnic group/ or ethnology/ or geriatric*.hw. or gerontology/ or exp hispanic/ or exp immigration/ or exp indigenous people/ or exp migrant/ or minority group/ or mongoloid/ or exp multiracial person/ or multilingualism/ or nursing home/ or exp oceanian/ or exp oceanic ancestry group/ or prejudice/ or exp religion/ or exp religious group/ or residential home/ or social problem/ or exp south american/ or superstition/ or *taboo/ or *"translating (language)"/) use oemezd | | |
| 19 | (exp african continental ancestry group/ or exp aged/ or exp american native continental/ or "emigration and immigration"/ or ancestry group/ or exp asian continental ancestry group/ or "emigrants and immigrants"/ or "health services for the aged"/ or "homes for the aged"/ or "transients and migrants"/ or cross-cultural comparison/ or cultural characteristics/ or cultural competency/ or cultural deprivation/ or cultural diversity/ or culture/ or exp ethnic groups/ | | |

| or ethnology or minority groups or multilingualism or nursing homes or oceanic ancestry group or exp perialical or translating) use ppez or genitaric ", w. or eth.s. (african culture groups or to freque in quage translation" or patistic patients of translating or translating or access cultural communication or exp cross cultural iseration of or taxes in the investigation of translating or translating or translating or translating and the investigation of translating or exp religious beliefs' or exp religious practices' or residential care or translating or culture (chines and translating) or translating or culture (chines and translating) or translating or culture (chines and translating) or translating or culture (chines and translating or cultural translating or cultural translating or transl | # | Searches | | |
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| 20 (drican culture groups/ or alaska natives/ or american indians/ or analy or exp asians/ or asytum seeking/ or lackak/ or ethnology/ or elder care/ or foreign language translation/ or gentatic patients/ or havaii natives/ or human migration or immigration/ erap indigenous populations or trace and ethnic testions/ or recide and ethnic ethnic discrimination/ or exp inacial and think groups // in trace and ethnic testions/ or recident and ethnic discrimination/ or exp inacial and think groups // in trace and ethnic testions/ or recident ethnic discrimination/ or exp inacial and ethnic groups // in trace and ethnic testions/ or recident discrimination/ or estimation or recident and exp explosion plates or fore and ethnic distributors/ or reliement communities/ or romaines/ or exploated issues/ or exploated interval or superstitions/ or taboos/) use psyh or gentatic-'tw. or genore or resident and exploate plate plate plates in or banglades/ or beneral distributors/ or ellement communities/ or romaines/ or enal interval gentatic-' or genontology on runsing home's or resident and exploate plate plate plates and ethnic and gentatic-' or genontology on runsing home's or resident and exploade plate plates and ethnic and the person') or calibacar in chance an ingratine or minitor or multi- or any orub or ropenol er person') or calibacar in a distributor in testing or minitor or multi genal or multi-ally or nultilingual or multipue' or multipue's exploades and ethnic and the exploade and the sub- mated is blander' or pakikatar' or plates or ingratine or manitor and exploade plate plates and ethnic and the sub- ended is any ender any ender any ender any ender resonary or ender and any or ender and ethnic disadvantaged the case and (bby or boys or brother' or father' or ingratility or resp dender identity) or exploades or exploade (bby or boys or brother' or father' or multipue's runsing or gender identity) or exploades or sub- enzation and ethnic dises or gender dysphorial or exploade identity or exploades. (| | | | |
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| exp male/ use cemezd (male/ or exp men/) use ppez (exp human males/ or male attitudes/) use psyh ((boy or boys or borther' or father' or husband' or male' or man or men or son or sons or widower') and (access' or barrier' or dispart' or equity or inequit' or inequalit').lw. or/23-26 (exp 'excual and gender minority' or bisexuality/ or exp gender dysphoria/ or exp gender identity/ or exp homosexuality/ use cemezd (exp 'escual and gender minority' or bisexuality/ or exp Gender Identity/ or Bisexuality/ or exp Homosexuality/ or exp Gender Identity/ or Bisexuality/ or exp Homosexuality/ or exp Gender Identity/ Disorder/ or "Homosexuality or or go Gender Identity or Bisexuality' or bisexuality' or exp Gender Identity Disorder/ or "Homosexuality or or gold gender" or bigeard" or bisexuality or exp Cender Identity Disorder/ or "Homosexuality or light or bomosexuality or exp Gender Identity Disorder/ or "Homosexuality or light or glipt or bomosexuality or gender emorth" or gender mutral or glipt or gender minorit. (transgender' or bisexual' or trans-gender' or gender der minorit. (transgender' or trans-gender' or gender diverse or gender atrain." or gender queet or sexual or non-binary or nonbinary or transexual' or trans-sexual' or trans-sexual' or transvestite').tw. or/28-32 (theath education / theath education/ or nealth promotion/ or patient information/ or reading/ or vulnerable population/) use cemezd (theath education for health education or communication barriers/ or health fleracy/ or socioeconomic tafactors or sociate or voccubary/) use psyh (theath adj2 (educat' or promot*)) or ((client* or patient information) or literac*).tw. or/28-32 (theath adj2 (educat' or promot*)) or (client* or patient information) or literac*).tw. or/28-37 (at risk populations/ or elemet education or socioeconomic s | | adj2 service*) or equity or inequit* or inequalit* or (receipt adj2 service*) or utili?ation)).tw. | | |
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| barrier* or disparit* or equity or inequit* or inequalit*)).tw. 71 or/23-26 (exp "sexual and gender minority"/ or bisexuality/ or exp gender dysphoria/ or exp gender identity/ or exp homosexuality/ or exp formosexuality/ or exp formosexuality/ or exp Homosexuality/ or exp Gender Identity/ or Bisexuality/ or exp Homosexuality or exp Gender Identity/ or Bisexuality/ or exp Gender Identity or Bisexuality/ or exp Gender Identity or Bisexuality or exp Gender Identity or Bisexuality/ or exp Gender Identity or Bisexuality (Attitudes Toward)?) use psyh (bigender* or bi-gender* or bisexual* or bisexual* or gas or gender minority" or gender neutral or glbt or glbt or lgbt or lgbt or optical discident* or sexual and inority". No. (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or norbinary or transexual* or trans-sexual* or trans-sexual* or transvestile*).tw. or/28-32 (health education/ or health literacy/ or health promotion/ or patient education/ or reading/ or vulnerable population/) use opera/d (communication barriers/ or health education/ or communication barriers/ or health literacy/ or socioeconomic factors/ or "patient educations or solicit" or vcoublary/) use pps/ (thealth educations/ or client education ar opciver or socioeconomic status/ or vox polical will and or audiovisual equipment/ or combunication or waptering variant or explical disk/ or explored or computer system/ or explical disk/ or explored or or object or vcoabulary) use pps/ (thealth adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac*).tw. or/34-37 (attrik populations/ or client education/ or expleter bartily or teleconsultation or exp teleheabit/ or vcoabulary/ use pps/ (attrik population/ or computer gradientical or eleconmunication or vap teleheabit/ or video disk/ or videot | | | | |
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| homosexuality/) use cemezd (exp Gender Identity/ or Bisexuality or exp Homosexuality/ or Specular (and Gender Minorities") or Gender Dysphoria/ or Gender Identity/ or Bisexuality or exp Homosexuality (Attitudes Toward)?) or Same Sex Couples (> Transgender Persons/) use ppez (bigender' or bi-gender' or bisexual' or bi-sexual' or gay or gender minorit' or gender neutral or gibt or gibt or or bomosexual or lobianit' or gender minorit' or gender neutral or gibt or gibt or or homosexual or lobianit' or gender minorit' or gender neutral or gibt or gibt or or homosexual or or gener' or sexual discient' or sexual minorit'). W. (transgender' or trans-gender' or gender diverse or gender varian' or genderqueer' or intersext or non-binary or nonbinary or transexual' or trans-sexual' or trans-sexual' or transvestite').tw. or/28-32 (thealth education/ or health literacy/ or health promotion/ or patient education/ or patient information/ or reading/ or vulnerable population/) use cemezd (communication barriers/ or health education/ or health literacy/ or health promotion/ or literacy/ or socioeconomic factors/ or "patient education/ or communication barriers/ or health education/ or secie conomic factors/ or "patient education/ or communication barriers/ or health theracy/ or adio gender assisted theracy/ or exablary/) use ppez (at risk populations/) use (educat' or promot')) or ((client' or patient') adj2 (educat' or information)) or literac').tw. or/34-37 (attride to computers/ or nadiovisual aid/ or audiovisual equipment/ or communication software/ or computer assisted theracy/ or explication/ or expletely or telehealth or telemedicine/ or expletely assistent/ or social media/ or exp elegy-or information/ or expletely or video disk/ or videotape/) use cemezd (attitude to computers/ or audiovisual aid/ or audiovisual equipment/ or computer, assisted instruction astopic/ or social media/ or telecommunication as topic/ or explic | | | | |
| (exp "Sexual and Gender Minorities" or Gender Dysphorial or Gender Identity' or Bisexuality/ or exp Homosexuality/ or Transsexualism/ or Health Services for Transgender Persons/) use ppsy (by Gender Identity/ or Bisexuality' or exp Homosexuality' or exp Gender Identity Disorder/ or "Homosexuality (Attitudes Toward)" or Same Sex Couples/ or "Transgender (Attitudes Toward)") use psyh (bigender or brights" or homosexual" or homo-sexual" or gory or gender minorit" or gender meutral or gibt or gibtg" or light or glpt or lights" or homosexual" or homo-sexual" or gav or gender minorit" or gender neutral or gibt or gibtg" or light or queer' or sexual month"). Mr. (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or nonbinary or transexual* or trans-sexual* or transvestite"). Nr. (transgender* or trans-gender* or pender diverse or gender varian* or genderqueer* or exit. (transgender* or trans-gender* or health promotion/ or patient education/ or neading/ or vulnerable population/) use oemezd (transk population) use oemezd (communication barriers/ or health education/ or neading dor vulnerable population/) use ppsz. (di trisk populations) or client education/ or reading education/ or socioeconomic factors/ or "patient education or or communication barriers/ or health literacy/ or health promotion/ or literacy' or low literacy/ or reading education/ or socioeconomic status/ or vocabulary/) use psyh (health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information software/ or computer assisted therapy) or computer program/ or computer is ystem/ or computer/ or decision support system/ or e-mail/ or human computer inferaction or social media/ or telecommunication or teleconsultation/ or e-exil/ or human computer inferaction or telemontionica/ or exp potidammed instruction astopic/ or social networking/ or exp sof | 20 | | | |
| (exp Gender Identity/ or Bisexuality/ or exp Homosexuality/ or exp Gender Identity Disorder/ or "Homosexuality (Attitudes Toward)"/ or Same Sex Couples/ or "Transgender (Attitudes Toward)"/) use psyh (bigender' or bi-gender' or bisexual' or homo-sexual' or lesbigay" or non-heterosexual or nonheterosexual' or nonbeterosexual or lesbigay" or non-heterosexual or nonheterosexual or nonheterosexual or nonheterosexual or nonheterosexual (transgender' or trans-gender' or gender diverse or gender varian' or genderqueer' or eintersex* or non-binary or non-heterosexual or trans-sexual or patient enducation/ or patient information/ or reading/ or vulnerable population/) use comezd (communication barriers/ or health promotion/ or patient education/ or reading/ or vulnerable population/) use comezd (at risk populations/ or client education/ or communication barriers/ or health promotion/ or literacy/ or socioeconomic factors/ or "patient education or communication barriers/ or health education or literacy/ or eading education or socioeconomic status/ or vocabulary/) use pps/ ((health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac*).tw. or/34-37 (attitude to computers/ or audiovisual aid/ or audiovisual equipment/ or computer/ or decision support system/ or e-mail/ or human computer interaction/ or social media/ or lecesonsultation/ or exp deleadith/ or telemontion/ or computer system/ or computer system/ or computer vistems/ or isocial media/ or exp optical disk/ or personal digital assistant/ or social media/ or telecommunication/ or computer/ system/ or computer system/ or decision support system/ or e-mail/ or human computer interaction/ or tocial media/ or exp optical diss/ or exp octical disk/ or videotase/ or co | 29 | (exp "Sexual and Gender Minorities"/ or Gender Dysphoria/ or Gender Identity/ or Bisexuality/ or exp Homosexuality/ | | |
| (Attitudes Toward)? or Same Sex Couples/ or "Transgender (Attitudes Toward)? use psyh (bigender* or bi-gender* or bisexual* or bi-sexual* or gay or gender mionit* or gender neutral or gibt or gibt or gibt or of non-sexual* or lesbian* or lesbigay* or non-heterosexual* or nonheterosexual* or runneterosexual* or trans-sectual* or trans-sectual* or gender queer* or intersex* or non-binary or nonbinary or transexual* or trans-secual* or trans-secual* or transvestite*).tw. or/28-32 (health education/ or health literacy/ or health promotion/ or patient education/ or patient information/ or reading/ or vulnerable population/) use oemezd (communication barriers/ or health education/ or communication barriers/ or health education/ or socioeconomic factors/ or *patient education as topic*/ or vocabulary/) use ppez (at risk populations/ or client education/ or communication barriers/ or health literacy/ or health education/ or socioeconomic status/ or vocabulary/) use ppsyh (fleath adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac/. Interacy/ or e-mail/ or socioeconomic status/ or e-computer system/ or computer/ or decision support system/ or e-mail/ or human computer interaction/ or information technology/ or internet/ or mobile phone/ or multimedia/ or exp optical disk/ or personal digital assistant/ or social media/ or teelcommunication/ or telcomsultiation/ or socie/ or social net// or videotape/) use oemezd (ditude to computers/ or audiovisual aid/ or exp cellular phone/ or computer assisted herapy) or computer sistent/ or computer system/ or computer gender/ or explical disk/ or videotape/) use oemezd (attitude to computers/ or audiovisual aids/ or exp cellular phone/ or computer gender/ or osocial net/ or human computers/ or audiovisual aids/ or exp cellular phone/ or computer gender/ or explical disk/ or videotape/) use oemezd (attitude to co | 00 | | | |
| (bigender* or bi-gender* or bisexual* or bi-sexual* or gay or gender minorit* or gender neutral or glbt or glbtor or homosexual* or homo-sexual* or lesbiagy* or non-heterosexual* or non-heterosexual* (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or nonohary or transexual* or transsexual* or trans-sexual* or transvestite*).tw. or/28-32 (health education/ or health literacy/ or health promotion/ or patient education/ or patient information/ or reading/ or vulnerable population/) use comezd (communication barriers/ or health education/ or health literacy/ or health promotion/ or literacy/ or socioeconomic factors/ or *patient education or or combunication barriers/ or health education/ or combulation/ use pegz (at risk populations/ or client education/ or communication barriers/ or health education/ or literacy/ or health promotion/ or literacy/ or low literacy/ or reading or reading education/ or socioeconomic status/ or vocabulary/) use psy h ((health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac*).tw. or/34-37 ((health adj2 (educat* or promot*)) or computer system/ or computer/ or decision support system/ or e-mail/ or human computer / or teleponter/ or teleconsultation/ or exp optical disk/ or personal digital assistant/ or social media/ or teleconsultation/ or texp telehealth/ or telemedicine/ or telepontoring/ or teleponte/ or computer assisted/ or exp telehealth/ or telemedicine/ or exp software/ or computer assisted/ or exp telehealth/ or telemedicine/ or teleponter/ or teleponter/ or computer assisted/ or exp telehealth/ or telemedicine/ or teleponter/ or teleponte/ or computer assisted/ or exp telehealth/ or telemedicine/ or exp software/ or computer assisted/ or exp telehealth/ or telemedicine/ or exp software/ or computer assisted/ or exp telemedicion/ or exp telehealth/ or ex | 30 | | | |
| or queer* or sexual disident* or sexual minorit*) tw. 32 (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or nonbinary or transsexual* or transsexual* or trans-sexual* or transvestile*).tw. 33 or/28-32 34 (health education/ or health literacy/ or health promotion/ or patient information/ or reading/ or vulnerable population/) use oemezd 35 (communication barriers/ or health education/ or health literacy/ or health promotion/ or literacy/ or socioeconomic factors/ or *patient education as topic?/ or vocabulary/) use ppez 36 (at risk populations/ or client education/ or communication barriers/ or health education/ or socioeconomic status/ or vocabulary/) use ppez 37 ((health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literacy'.tw. 38 or/34-37 39 (attitude to computers/ or audiovisual aid/ or audiovisual equipment/ or communication software/ or computer assisted therapy/ or computer program/ or computer system/ or computer/ or moltine/ or multimedia/ or exp optical disk/ or personal digital assistant/ or social media/ or telepone// or telepone// or telepone// or telemetic/ or telebenety/ or computer interaction/ or social media/ or exp cellular phone/ or computer assigning or video disk/ or vidoctape/) use oemezd 40 (attitude to computers/ or audiovisual aids/ or exp cellular phone/ or computer systems/ or exp solehaelth/ or telemedicine/ or telepone/ or telepone/ or exp telehealth/ or telemeticine/ or teletore/ or telepone/ or exp telehealth/ or communications media/ or exp optical storage devices/ or exp programmed instruction as topic?/ or computer interaction/ or computer interaction/ or exp soltware/ or computer interaction/ or exp soltware/ or telephone/ or exp telehealth/ or telemedicine/ or telephone/ or exp soltware/ or exp and/ or holines/ or multimedia/ or exp optical storage devices/ or exp programmed instructi | 31 | | | |
| (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or nonbinary or transexual* or trans-sexual* or transvestite*).tw. (health education/ or health literacy/ or health promotion/ or patient education/ or patient information/ or reading/ or vulnerable populations/ or client education/ or nocomunication barriers/ or health literacy/ or health promotion/ or literacy/ or socioeconomic factors/ or "patient education as topic"/ or vocabulary/) use ppez (at risk populations/ or client education/ or communication barriers/ or health education/ or oncobulter ading dor reading education/ or socioeconomic status/ or vocabulary/) use psyh ((health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac*).tw. or/34-37 (attitude to computers/ or audiovisual aid/ or audiovisual equipment/ or domination software/ or computer assisted therapy/ or computer program/ or computer system/ or computer assisted or exp optical disk/ or personal digital assistant/ or social media/ or teleonsel/ or nuble phone/ or multimedia/ or exp optical disk/ or exp telehealth/ or telehemedicnie/ or exp telehealth/ or telehemedicnie/ or exp telehealth/ or telehemedicnie/ or exp ordical adis/ or exp cellular phone/ or computer-assisted instruction as topic/ or social networking/ or exp software/ or computer assisted/ or exp videotepording/) use ppez. (attitude to computers/ or audiovisual aids/ or exp videoreording/) use ppez. (adiotapes/ or audiovisual cormunications me | | | | |
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| 34 (health education/ or health literacy/ or health promotion/ or patient education/ or patient information/ or reading/ or vulnerable population/) use oemezd 35 (communication barriers/ or health education/ or communication barriers/ or health promotion/ or literacy/ or socioeconomic factors/ or "patient education or reading/ or reading education/ or socioeconomic status/ or vocabulary/) use psy 36 (at risk populations/ or client education/ or communication barriers/ or health education/ or health literacy/ or health promotion/ or literacy/ or low literacy/ or reading/ or reading education/ or socioeconomic status/ or vocabulary/) use psyh 37 ((health adj2 (educat* or promot*)) or ((client* or patient*) adj2 (educat* or information)) or literac*).tw. 38 or/34-37 39 (attitude to computers/ or audiovisual aid/ or audiovisual equipment/ or communication software/ or computer assisted therapy/ or computer program/ or computer system/ or computer or decision support system/ or e-anil/ or human computer interaction/ or information technology/ or internet/ or mobile phone/ or multimedia/ or exp optical disk/ or personal digital assistant/ or social media/ or telecommunication/ or teleconsultation/ or exp telehealth/ or telemedicine/ or telemonitoring/ or telephone/ or telepsychiatry/ or teletherapy/ or computer systems/ or decision making, computer assisted/ or exp togical media/ or computer user training/ or computing methodologies/ or exp computer systems/ or decision making, computer assisted/ or exp teleheatty/ or celephone/ or telephone/ or telephone/ or telemetry/ or computer assisted/ or exp teleheatty or rotinical/ or electronic mail/ or hotlines/ or audiovisual communications media/ or computer user training/ or computer assisted/ or exp teleheatty or computer assisted/ in exp videorecording/) use psez 40 (attitude to computers/ or cumputer assisted/ or exp telemedicine/ or exp teleheatty/ or telephone/ or text messaging/ or therapy, computer ass | 02 | | | |
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|----------|---|--|--|
| π | system* or remote consultation* or short messag* or skype or sms or (social adj (media or network*)) or texts or texting or video* or virtual or website).tw. | | |
| 43 | ((cd or communication or digital or electronic* or mobile or net or pc*1 or pda or phone* or phoning or tablet* or technolog* or telephon* or web or www) adj3 (aid* or assist* or based or deliver* or diary or diaries)).tw. | | |
| 44 | ((cd or communication or digital or electronic* or mobile or net or pc*1 or pda or phone* or phoning or tablet* or technolog* or telephon* or web or www) adj7 (advocacy or application* or approach* or coach* or educat* or exchang* or guide*1 or help* or instruct* or interact* or interven* or learn* or manag* or meeting* or module* or network* or package* or participat* or prevent* or program* or psychoanaly* or psychotherap* or rehab* or retrain* or re train* or self guide* or self help or selfguide* or selfhelp or session* or skill* or strateg* or support* or teach* or technique* or therap* or train* or treat* or work shop* or workshop*)).tw. | | |
| 45 | ((vr or virtual reality) adj2 (advocacy or application* or approach* or coach* or educat* or exchang* or exposure or feedback* or guide*1 or help* or instruct* or interact* or interven* or learn* or manag* or meeting* or module* or network* or package* or participat* or prevent* or program* or psychoanaly* or psychotherap* or rehab* or retrain* or re train* or self guide* or self help or selfguide* or selfhelp or session* or skill* or strateg* or support* or teach* or technique* or therap* or train* or treat* or work shop* or workshop*)).tw. | | |
| 46 | (caccbt or ccbt or ccbt or call in or (caller*1 adj3 (interven* or program* or therap* or treat*)) or callline* or call line* or ediar* or ehealth or emediat* or elearn* or etherap* or (e adj (diar* or learn or health or mediat* or therap*)) or help line* or helpline* or hotline* or hot line* or outreach* or phone in or phonein or telecare or telecommunication or teleconsult* or telehealth or telemedicine or telement* or telepsychology or telepsychiatry or teletherap* or (tele adj (care or communication or consult* or health or medicine or mental* or psychology or psychiatry or therap*)) or videocam* or video cam* or webcam* or web cam*).tw. | | |
| 47 | (alles onder controle or autism xpress or autismexpress or avatars programme or (beating adj2 blues) or big white wall or blue pages or bluepages or (brave program and anxiet*) or (camp cope adj2 lot) or (catch it and depres*) or cool teens or coping cat or crufadschools or (e couch and depres*) or fearfighter or ff education or ffeducation or grip op je dip or internet psychiatri or internet psykiatri or leap project or linden method or (little prince and depres*) or (living life adj2 full) or mind your*1 mind or mood gym or mood helper or moodgym or moodhelper or my*1 body my*1 life or net ff or netcope or netff or co fighter or offighter or pix talk or pixtalk or (restoring adj2 balance) or sparx or standalone ff or standaloneff or student bodie or student bodies prevention program* or studentbodie or ((the*1 adj lowdown) and depres*) or the*1 journey or therapeutic learning program* or trouble on*1 the*1 tightrope or think feel do or whiz kid games or (youth mental health adj2 parent* guide)).tw. | | |
| 48 | (ecological momentary assessment* or mhealth or (mobile adj2 (app or apps or application*)) or virtual reality or wearable*).tw. | | |
| 49 | or/39-48 | | |
| 50 | 49 and (17 or (access* or barrier* or disparit* or equity or inequit* or inequalit*).tw.) | | |
| 51 52 | 6 and (17 and (or/22,27,38) and 50) limit 51 to dc=20160601-20190403 use oemezd [Limit not valid in PsycINFO; records were retained] | | |
| 53 | limit 51 to ed=20160601-20190403 use ppez [Limit not valid in Embase,PsycINFO; records were retained] | | |
| 54 | limit 51 to up=20160601-20190403 use psyh | | |
| 55 | or/52-54 | | |
| 56 | 6 and (17 and 33 and 50) | | |
| 57 | 55 or 56 | | |
| 58 59 | limit 57 to english language Letter/ use ppez | | |
| 60 | letter.pt. or letter/ use oemezd | | |
| 61 | note.pt. | | |
| 62 | editorial.pt. | | |
| 63 | Editorial/ use ppez | | |
| 64 65 | News/ use ppez exp Historical Article/ use ppez | | |
| 66 | Anecdotes as Topic/ use ppez | | |
| 67 | Comment/ use ppez | | |
| 68 | Case Report/ | | |
| 69 | case study/ use oemezd | | |
| 70 | (letter or comment*).ti. | | |
| 71 72 | or/59-70 randomized controlled trial/ | | |
| 72 | randomized controlled that/ | | |
| 74 | 72 or 73 | | |
| 75 | 71 not 74 | | |
| 76 | (animals/ not humans/) use ppez | | |
| 77 | (animal/ not human/) use oemezd | | |
| 78 | nonhuman/ use oemezd | | |
| 79 80 | exp animals/ use psyh "primates (nonhuman)"/ use psyh | | |
| 81 | exp Animals, Laboratory/ use ppez | | |
| 82 | exp Animals, Euserimentation/ use ppez | | |
| 83 | exp animal experiment/ use oemezd | | |
| 84 | exp experimental animal/ use oemezd | | |
| 85 | exp Models, Animal/ use ppez | | |
| 86 87 | animal model/ use oemezd | | |
| 07 | animal models/ use psyh | | |

| # | Searches | | |
|-----|---|--|--|
| 88 | animal research/ use psyh | | |
| 89 | exp Rodentia/ use ppez | | |
| 90 | exp rodent/ use oemezd | | |
| 91 | exp rodents/ use psyh | | |
| 92 | (rat or rats or mouse or mice).ti. | | |
| 93 | or/75-92 | | |
| 94 | 58 not 93 | | |
| 95 | clinical Trials as topic.sh. or (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or (placebo or randomi?ed or randomly).ab. or trial.ti. | | |
| 96 | 95 use ppez | | |
| 97 | (controlled clinical trial or pragmatic clinical trial or randomized controlled trial).pt. or drug therapy.fs. or (groups or placebo or randomi?ed or randomly or trial).ab. | | |
| 98 | 97 use ppez | | |
| 99 | crossover procedure/ or double blind procedure/ or randomized controlled trial/ or single blind procedure/ or (assign* or allocat* or crossover* or cross over* or ((doubl* or singl*) adj blind*) or factorial* or placebo* or random* or volunteer*).ti,ab. | | |
| 100 | 99 use oemezd | | |
| 101 | clinical trials/ or (placebo or randomi?ed or randomly).ab. or trial.ti. | | |
| 102 | 101 use psyh | | |
| 103 | 96 or 98 | | |
| 104 | 100 or 102 or 103 | | |
| 105 | Meta-Analysis/ | | |
| 106 | exp Meta-Analysis as Topic/ | | |
| 107 | systematic review/ | | |
| 108 | meta-analysis/ | | |
| 109 | (meta analy* or metanaly* or metaanaly*).ti,ab. | | |
| 110 | ((systematic or evidence) adj2 (review* or overview*)).ti,ab. | | |
| 111 | ((systematic* or evidence*) adj2 (review* or overview*)).ti,ab. | | |
| 112 | (reference list* or bibliograph* or hand search* or manual search* or relevant journals).ab. | | |
| 113 | (search strategy or search criteria or systematic search or study selection or data extraction).ab. | | |
| 114 | (search* adj4 literature).ab. | | |
| 115 | (medline or pubmed or cochrane or embase or psychlit or psyclit or psychinfo or psycinfo or cinahl or science citation index or bids or cancerlit).ab. | | |
| 116 | cochrane.jw. | | |
| 117 | ((pool* or combined) adj2 (data or trials or studies or results)).ab. | | |
| 118 | (or/105-107,109,111-116) use ppez | | |
| 119 | (or/107-110,112-117) use oemezd | | |
| 120 | or/118-119 | | |
| 121 | 104 or 120 | | |
| 122 | 94 and 121 | | |
| 123 | remove duplicates from 122 | | |
| | | | |

The Cochrane Library: Cochrane Database of Systematic Reviews, Issue 4 of 12, April 2019; Cochrane Central Register of Controlled Trials, Issue 4 of 12, April 2019

Date of search: 03/04/2019

Search updated: 09/03/2021

| ID | Search | | |
|-----|---|--|--|
| #1 | MeSH descriptor: [Depression] this term only | | |
| #2 | MeSH descriptor: [Depressive Disorder] explode all trees | | |
| #3 | MeSH descriptor: [Anxiety] this term only | | |
| #4 | MeSH descriptor: [Anxiety Disorders] explode all trees | | |
| #5 | MeSH descriptor: [Body Dysmorphic Disorders] this term only | | |
| #6 | MeSH descriptor: [Compulsive Behavior] this term only | | |
| #7 | MeSH descriptor: [Panic] this term only | | |
| #8 | MeSH descriptor: [Panic] this term only (anxiet* or anxious* or "body dysmorphi*" or dysmorphophobi* or (combat near/1 (disorder* or fatigue or neuros* or syndrome*)) or "concentration camp syndrome" or "torture syndrome" or "war neuros*" or (rape near/2 trauma*) or "flash back*" or flashback* or posttrauma* or "post trauma*" or ptsd or "railway spine" or "re experienc*" or reexperienc* or (trauma* and (avoidance or grief or horror or death* or nightmare* or "night mare*" or emotion*)) or depress* or dysphori* or dysthymi* or melanchol* or "seasonal affective disorder*" or "clean response*" or compulsi* or obsession* or obsessive* or ocd or recur* thought* or panic* or agoraphobi* or claustrophobi* or (psych* near/1 (stress or trauma*)) or psychotrauma* or "stress disorder*" or ((acute or chronic* or extreme or incessant* or intense* or persistent* or serious* or sever*) near/2 (apprehens* or doom or fear* or terror*)) or hypervigil*):ti,ab | | |
| #9 | (healthcare or "health care" or (mental near/1 (disorder* or health)) or "primary care"):ti,ab | | |
| #10 | {or #1-#9} | | |
| #11 | MeSH descriptor: [Health Services Accessibility] this term only | | |
| #12 | MeSH descriptor: [Healthcare Disparities] this term only | | |

| ID | Search | | |
|------------|--|--|--|
| #13 | MeSH descriptor: [Health Status Disparities] this term only | | |
| #14 | MeSH descriptor: [Health Promotion] this term only | | |
| #15 | ((access* or barrier* or disparit* or equity or inequit* or inequalit*) and (care or "clinical practice" or detect* or diagnos* or health* or interven* or medication* or medicine* or program* or psychotherap* or recogni* or referral* or service* or therap* or treat*)):ti.ab | | |
| #16 #17 | (((health near/1 (care or service)) or healthcare) near/2 (need* or use* or using or utilis* or utiliz*)):ti,ab ((barrier* or disparit* or equity or hinder* or hindran* or hurdle* or imped* or improv* or inequit* or inequalit* or obstacle* or obstacle* or operative or prevent* or promot* or reluctan* or restrict* or uptake or utiliz* or utilis* or vulnerable) and access*):ti,ab | | |
| #18 | ((access or barrier) near/1 research*):ti,ab | | |
| #19 | ((behavior* or behaviour* or helpseek* or "help seek*" or system*) and barrier*):ti,ab | | |
| #20 | MeSH descriptor: [Translating] this term only | | |
| #21 | (translate* or translating or translator*):ti,ab | | |
| #22 | {or #11-#21} | | |
| #23 #24 | MeSH descriptor: [Communication Barriers] explode all trees MeSH descriptor: [Health Education] this term only | | |
| #24 #25 | MeSH descriptor: [Health Literacy] this term only | | |
| #26 | MeSH descriptor: [Health Promotion] this term only | | |
| #27 | MeSH descriptor: [Literacy] this term only | | |
| #28 | MeSH descriptor: [Socioeconomic Factors] this term only | | |
| #29 #30 | ((health near/2 (educat* or promot*)) or ((client* or patient*) near/2 (educat* or information)) or literac*):ti, ab ((((computer* or electronic* or technolog*) near/2 (communication* or mediat*)) or etherap* or "e therap*" or (remote* near/2 (communic* or deliver* or therap*)) or ((distance or remote*) near/2 (communication* or technolog* or electronic*)) or internet or telecommunicat* or "tele communicat*" or telemedicine or "tele medicine" or telephone* or telepsychiatr* or videoconf* or "video conf*") and (access* or barrier* or disparit* or ((enter* or entry) near/2 service*) or equity or inequit* or inequalit* or (receipt near/2 service*) or utilisation or utilization) and (intervention* or etherap* or program* or psychotherap* or therap* or treat*)):ti,ab | | |
| #31 | {or #23-#30} | | |
| #32 | MeSH descriptor: [African Continental Ancestry Group] explode all trees | | |
| #33 | MeSH descriptor: [Aged] explode all trees | | |
| #34 #25 | MeSH descriptor: [American Native Continental Ancestry Group] explode all trees | | |
| #35 #36 | MeSH descriptor: [Emigration and Immigration] this term only MeSH descriptor: [Asian Continental Ancestry Group] explode all trees | | |
| #30 | MeSH descriptor: [Emigrants and Immigrants] explode all trees | | |
| #38 | MeSH descriptor: [Health Services for the Aged] this term only | | |
| #39 | MeSH descriptor: [Homes for the Aged] this term only | | |
| #40 | MeSH descriptor: [Transients and Migrants] this term only | | |
| #41 | MeSH descriptor: [Cross-Cultural Comparison] this term only | | |
| #42 | MeSH descriptor: [Cultural Characteristics] this term only | | |
| #43 | MeSH descriptor: [Cultural Competency] this term only | | |
| #44 #45 | MeSH descriptor: [Cultural Deprivation] this term only MeSH descriptor: [Cultural Diversity] this term only | | |
| #43 #46 | MeSH descriptor: [Culture] this term only | | |
| #47 | MeSH descriptor: [Ethnic Groups] explode all trees | | |
| #48 | MeSH descriptor: [Ethnology] this term only | | |
| #49 | geriatric*:kw | | |
| #50 | MeSH descriptor: [Minority Groups] this term only | | |
| #51 | MeSH descriptor: [Multilingualism] this term only | | |
| #52 | MeSH descriptor: [Nursing Homes] explode all trees | | |
| #53 #54 | MeSH descriptor: [Oceanic Ancestry Group] this term only | | |
| #54 #55 | MeSH descriptor: [Prejudice] this term only MeSH descriptor: [Race Relations] explode all trees | | |
| #55 | MeSH descriptor: [Refugees] this term only | | |
| #57 | MeSH descriptor: [Religion] explode all trees | | |
| #58 | MeSH descriptor: [Superstitions] this term only | | |
| #59 | MeSH descriptor: [Taboo] this term only | | |
| #60 | MeSH descriptor: [Translating] this term only | | |
| #61 | ((aged or ageism or agism or aging or aging or elder* or ((frail or old or older) near/1 (adult* or men or people or person* or women)) or geriatric* or gerontology or "nursing home*" or "residential care" or african or asian* or bangladesh* or bengali or (black* near/2 (communit* or famil* or people or person*)) or blacks or (bme near/2 (communit* or group* or people or person*)) or caribbean* or (chinese near/2 (adult* or communit* or famil* or people or person*)) or cultur* or disadvantaged or disparities or ethnic* or ethnic* or ethnic* or gujurati or hindu or hispanic* or imigrant* or immigrant* or inequalit* or interpret* or latino* or migrant* or multi lingual*" or multicultur* or multilingual* or muslim* or "pacific islander*" or translation or urdu or vulnerable) and (access* or barrier* or disparit* or ((enter* or entry) near/2 service*) or equity or inequalit* or inequalit* or (receipt near/2 service*) or utilisation or utilization)):ti,ab | | |
| #62 | MeSH descriptor: [Male] explode all trees | | |
| #63 | MeSH descriptor: [Men] explode all trees | | |
| #64 | ((boy or boys or brother* or father* or husband* or male* or men or son or sons or widower*) and (access* or barrier* or disparit* or equity or inequit* or inequalit*)):ti,ab | | |
| #65 | {or #32-#64} | | |

| ID | Search | | |
|--------------|---|--|--|
| #66 | | | |
| #67 | MeSH descriptor: [Sexual and Gender Minorities] explode all trees | | |
| | MeSH descriptor: [Gender Dysphoria] this term only | | |
| #68 #69 | MeSH descriptor: [Gender Identity] explode all trees MeSH descriptor: [Bisexuality] this term only | | |
| #09 | MeSH descriptor: [Homosexuality] explode all trees | | |
| #70 | MeSH descriptor: [Transsexualism] this term only | | |
| #71 | MeSH descriptor: [Health Services for Transgender Persons] this term only | | |
| #72 | | | |
| #73 | (bigender* or bi-gender* or bisexual* or bi-sexual* or gay or gender minorit* or gender neurtral or glbt or glbtq* or lbg or lgbt or lgbtq* or homosexual* or homo-sexual* or lesbian* or lesbigay* or non-heterosexual* or nonheterosexual* or queer* or sexual dissident* or sexual minorit*):ti,ab | | |
| #74 | (transgender* or trans-gender* or gender diverse or gender varian* or genderqueer* or intersex* or non-binary or nonbinary or transexual* or transsexual* or trans-sexual* or transvestite*):ti,ab | | |
| #75 | {or #66-#74} | | |
| #76 | MeSH descriptor: [Attitude to Computers] this term only | | |
| #77 | MeSH descriptor: [Audiovisual Aids] explode all trees | | |
| #78 | MeSH descriptor: [Cell Phone] explode all trees | | |
| #79 | MeSH descriptor: [Communications Media] this term only | | |
| #80 | MeSH descriptor: [Computer Literacy] this term only | | |
| #81 | MeSH descriptor: [Computer User Training] this term only | | |
| #82 | MeSH descriptor: [Computing Methodologies] this term only | | |
| #83 | MeSH descriptor: [Computer Systems] explode all trees | | |
| #84 | MeSH descriptor: [Decision Making, Computer-Assisted] this term only | | |
| #85 | MeSH descriptor: [Decision Support Systems, Clinical] this term only | | |
| #86 | MeSH descriptor: [Electronic Mail] this term only | | |
| #87 | MeSH descriptor: [Hotlines] this term only | | |
| #88 | MeSH descriptor: [Multimedia] this term only | | |
| #89 | MeSH descriptor: [Optical Storage Devices] explode all trees | | |
| #90 | MeSH descriptor: [Programmed Instruction as Topic] explode all trees | | |
| #91 | MeSH descriptor: [Social Networking] explode all trees | | |
| #92 | MeSH descriptor: [Software] explode all trees | | |
| #93 | MeSH descriptor: [Telecommunications] this term only | | |
| #94 | MeSH descriptor: [Telemedicine] explode all trees | | |
| #95 | MeSH descriptor: [Telemetry] this term only | | |
| #96 | MeSH descriptor: [Telephone] explode all trees | | |
| #97 | MeSH descriptor: [Therapy, Computer-Assisted] this term only | | |
| #98 | MeSH descriptor: [Video Recording] explode all trees | | |
| #99 | ((cd or communication or digital or electronic* or mobile or net or pc or pda or phone* or phoning or tablet* or technolog* or telephon* or web or www) near/3 (aid* or assist* or based or deliver* or diary or diaries)):ti,ab | | |
| #100 | ((cd or communication or digital or electronic* or mobile or net or pc or pda or phone* or phoning or tablet* or technolog* or telephon* or web or www) near/7 (advocacy or application* or approach* or coach* or educat* or exchang* or guide* or help* or instruct* or interact* or interven* or learn* or manag* or meeting* or module* or network* or package* or participat* or prevent* or program* or psychoanaly* or psychotherap* or rehab* or retrain* or "re train*" or "self guide*" or "self help" or selfguide* or selfhelp or session* or skill* or strateg* or support* or teach* or technique* or therap* or train* or "work shop*" or workshop*)):ti,ab | | |
| #101 | ((vr or virtual reality) near/2 (advocacy or application* or approach* or coach* or educat* or exchang* or exposure or feedback* or guide* or help* or instruct* or interact* or interven* or learn* or manag* or meeting* or module* or network* or package* or participat* or prevent* or program* or psychoanaly* or psychotherap* or rehab* or retrain* or "re train*" or "self guide*" or "self help" or selfguide* or selfhelp or session* or skill* or strateg* or support* or teach* or technique* or therap* or train* or "re train*" or "work shop*" or workshop*)):ti,ab | | |
| #102 | (caccbt or ccbt or "c cbt" or "call in" or (caller* near/3 (interven* or program* or therap* or treat*)) or callline* or "call line*" or ediar* or ehealth or emediat* or elearn* or etherap* or (e near/1 (diar* or learn or health or mediat* or therap*)) or "help line*" or helpline* or hotline* or "hot line*" or outreach* or "phone in" or phonein or telecare or telecommunication or teleconsult* or telehealth or telemedicine or telement* or telepsychology or telepsychiatry or teletherap* or (tele near/1 (care or communication or consult* or health or medicine or mental* or psychology or psychiatry or therap*)) or videocam* or "video cam*" or webcam* or "web cam*"):ti,ab | | |
| #103 | ("alles onder controle" or "autism xpress" or autismexpress or "avatars programme" or (beating near/2 blues) or "big white wall" or "blue pages" or bluepages or ("brave program" and anxiet") or ("camp cope" near/2 lot) or ("catch it" and depres*) or "cool teens" or "coping cat" or crufadschools or ("e couch" and depres*) or fearfighter or "ff education" or ffeducation or "grip op je dip" or "internet psychiatri" or "internet psykiatri" or "leap project" or "linden method" or ("little prince" and depres*) or ("living life" near/2 full) or "mind your* mind" or "mood gym" or "mood helper" or moodgym or moodhelper or "my body my life" or "net ff" or netcope or netff or "oc fighter" or ocfighter or "online anxiety prevention" or "overcoming bulimia online" or ("overcoming depression" and program*) or "panic online" or "pix talk" or pixtalk or (restoring near/2 balance) or sparx or "standalone ff" or standaloneff or "student bodie" or "therapeutic learning program*" or strudentbodie or ((the near/1 lowdown) and depres*) or "the journey" or "therapeutic learning program*" or "trouble on the tightrope" or "think feel do" or "whiz kid games" or ("youth mental health" near/2 parent* guide)):ti,ab | | |
| #104 | ("ecological momentary assessment*" or mhealth or (mobile near/2 (app or apps or application*)) or "virtual reality" or wearable*):ti,ab | | |
| #105 #106 | {or #76-#104} (access* or barrier* or disparit* or equity or inequit* or inequalit*):ti,ab | | |
| #100 | #105 and (#22 or #106) | | |
| #108 | (#10 and (#22 or #31 or #65) and #107) with Cochrane Library publication date Between Jun 2016 and Apr 2019 | | |

| ID | Search |
|------|------------------------------|
| #109 | #75 and (#22 or #31 or #106) |
| #110 | #10 and #109 |
| #111 | #108 or #110 |

Health Economics search

Database(s): Embase 1974 to 2019 Week 08, Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to February 26, 2019, PsycINFO 1806 to February Week 1 2019

Date of search: 27/02/2019

Search updated: 02/03/2021

| # | Searches |
|----|--|
| 1 | (depression/ or agitated depression/ or atypical depression/ or depressive psychosis/ or dysphoria/ or dysthymia/ or |
| | endogenous depression/ or involutional depression/ or late life depression/ or major depression/ or masked |
| | depression/ or melancholia/ or "mixed anxiety and depression"/ or "mixed depression and dementia"/ or |
| | premenstrual dysphoric disorder/ or reactive depression/ or recurrent brief depression/ or seasonal affective |
| | disorder/ or treatment resistant depression/) use oemezd |
| 2 | ((Depression/ or exp Depressive Disorder/ or Adjustment Disorders/ or Affective Disorders, Psychotic/ or Factitious |
| | Disorders/ or Premenstrual Dysphoric Disorder/) use ppez |
| 3 | ("depression (emotion)"/ or exp major depression/ or affective disorders/ or atypical depression/ or premenstrual |
| | dysphoric disorder/ or seasonal affective disorder/) use psyh |
| 4 | (depress* or dysphori* or dysthym* or melanchol* or seasonal affective disorder* or ((affective or mood) adj |
| | (isorder*)).tw. |
| 5 | or/1-4 |
| 6 | Letter/ use ppez |
| 7 | |
| 8 | letter.pt. or letter/ use oemezd |
| | note.pt. |
| 9 | editorial.pt. |
| 10 | Editorial/ use ppez |
| 11 | News/ use ppez |
| 12 | exp Historical Article/ use ppez |
| 13 | Anecdotes as Topic/ use ppez |
| 14 | Comment/ use ppez |
| 15 | Case Report/ |
| 16 | case study/ use oemezd |
| 17 | (letter or comment*).ti. |
| 18 | or/6-17 |
| 19 | randomized controlled trial/ |
| 20 | random*.ti,ab. |
| 21 | 19 or 20 |
| 22 | 18 not 21 |
| 23 | (animals/ not humans/) use ppez |
| 24 | (animal/ not human/) use penezd |
| 25 | nonhuman/ use oemezd |
| 26 | exp animals/ use psyh |
| 27 | "primates (nonhuman)"/ use psyh |
| 28 | exp Animals, Laboratory/ use ppez |
| 20 | exp Animals, Laboratory use ppez |
| 30 | exp animal experimentation/ use ppez |
| | |
| 31 | exp experimental animal/ use oemezd |
| 32 | exp Models, Animal/ use ppez |
| 33 | animal model/ use oemezd |
| 34 | animal models/ use psyh |
| 35 | animal research/ use psyh |
| 36 | exp Rodentia/ use ppez |
| 37 | exp rodent/ use oemezd |
| 38 | exp rodents/ use psyh |
| 39 | (rat or rats or mouse or mice).ti. |
| 40 | or/22-39 |
| 41 | 5 not 40 |
| 42 | Economics/ |
| 43 | Value of life/ |
| 44 | exp "Costs and Cost Analysis"/ |
| 45 | exp Economics, Hospital/ |
| 46 | exp Economics, Medical/ |
| 47 | Economics, Nursing/ |
| 48 | Economics, Pharmaceutical/ |
| | |

| # | Searches | | |
|------------|---|--|--|
| 49 | exp "Fees and Charges"/ | | |
| 50 | exp Budgets/ | | |
| 51 | (or/42-50) use ppez | | |
| 52 | health economics/ | | |
| 53 | exp economic evaluation/ | | |
| 54 | exp health care cost/ | | |
| 55 | exp fee/ | | |
| 56 | budget/ | | |
| 57 | funding/ | | |
| 58 | (or/52-57) use oemezd | | |
| 59 | exp economics/ | | |
| 60 | exp "costs and cost analysis"/ | | |
| 61 | cost containment/ | | |
| 62 | money/ | | |
| 63 | resource allocation/ | | |
| 64 | (or/59-63) use psyh | | |
| 65 | budget*.ti,ab. | | |
| 66 | cost*.ti. | | |
| 67 | (economic* or pharmaco?economic*).ti. | | |
| 68 | (price* or pricing*).ti,ab. | | |
| 69 | (cost* adj2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* or variable*)).ab. | | |
| 70 | (financ* or fee or fees).ti,ab. | | |
| 71 | (value adj2 (money or monetary)).ti,ab. | | |
| 72 | or/65-70 | | |
| 73 | 51 or 58 or 64 or 72 | | |
| 74 | Quality-Adjusted Life Years/ use ppez | | |
| 75 | Sickness Impact Profile/ | | |
| 76 77 | quality adjusted life year/ use oemezd | | |
| 77 | "quality of life index"/ use oemezd | | |
| 78 | (quality adjusted or quality adjusted life year*).tw. | | |
| 79 | (qaly* or qal or qald* or qale* or qtime* or qwb* or daly).tw. | | |
| 80 81 | (illness state* or health state*).tw. (hui or hui2 or hui3).tw. | | |
| 82 | (multiattibute* or multi attribute*).tw. | | |
| 83 | (utilit* adj3 (score*1 or valu* or health* or cost* or measur* or disease* or mean or gain or gains or index*)).tw. | | |
| 84 | utilities.tw. | | |
| 85 | (eq-5d* or eq5d* or eq-5* or eq5* or euroqual* or euro qual* or euroqual 5d* or euro qual 5d* or euro qol* or euroqol*or euro quol* or euroquol* or euro quol5d* or euroquol5d* or eur qol* or eurqol* or eur qol5d* or eurqol5d* or eur?qul* or eur?qul5d* or euro* quality of life or european qol).tw. | | |
| 86 | (euro* adj3 (5 d* or 5d* or 5 dimension* or 5dimension* or 5 domain* or 5domain*)).tw. | | |
| 87 | (sf36 or sf 36 or sf thirty six or sf thirtysix).tw. | | |
| 88 | (time trade off*1 or time tradeoff*1 or tto or timetradeoff*1).tw. | | |
| 89 | Quality of Life/ and ((quality of life or qol) adj (score*1 or measure*1)).tw. | | |
| 90 | Quality of Life/ and ec.fs. | | |
| 91 | Quality of Life/ and (health adj3 status).tw. | | |
| 92 | (quality of life or qol).tw. and Cost-Benefit Analysis/ use ppez | | |
| 93 | (quality of life or qol).tw. and cost benefit analysis/ use oemezd | | |
| 94 | (quality of life or qol).tw. and "costs and cost analysis"/ use psyh | | |
| 95 | ((qol or hrqol or quality of life).tw. or *quality of life/) and ((qol or hrqol* or quality of life) adj2 (increas* or decreas* or improv* or declin* or reduc* or high* or low* or effect or effects or worse or score or scores or change*1 or impact*1 or impacted or deteriorat*)).ab. | | |
| 96 | Cost-Benefit Analysis/ use ppez and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw. | | |
| 97 | cost benefit analysis/ use oemezd and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw. | | |
| 98 | "costs and cost analysis"/ use psyh and cost-effectiveness ratio*.tw. and (cost-effectiveness ratio* and (perspective* or life expectanc*)).tw. | | |
| 99 | *quality of life/ and (quality of life or qol).ti. | | |
| 100 | quality of life/ and ((quality of life or qol) adj3 (improv* or chang*)).tw. | | |
| 101 | quality of life/ and health-related quality of life.tw. | | |
| 102 | Models, Economic/ use ppez | | |
| 103 | economic model/ use oemezd | | |
| 104 | or/74-101 | | |
| 105 | 73 or 104 | | |
| 106 | 41 and 105 | | |
| 107 108 | limit 106 to english language limit 107 to yr="2016 -Current" | | |
| 100 | | | |

Database(s): NIHR Centre for Reviews and Dissemination: Health Technology Assessment Database (HTA)

Date of search: 26/02/2019

- #
 Searches

 #1
 MESH DESCRIPTOR: depressive disorder EXPLODE ALL TREES

 #2
 ((depres* or dysphori* or dysthymi* or melancholi* or seasonal affective disorder* or affective disorder* or mood disorder*))
- #3 #1 or #2 IN HTA FROM 2016 TO 2019

Database(s): CINAHL Plus (Cumulative Index to Nursing and Allied Health Literature) 1937current, EBSCO Host

Date of search: 26/02/2019

Search updated: 02/03/2021

| | upualeu. 02/03/2021 | |
|------|--|---|
| # | Query | Limiters/Expanders |
| S31 | S4 AND S30 | Limiters - Publication Year: 2016-2019; |
| | | Exclude MEDLINE records; Language: |
| | | English |
| | | Search modes - Boolean/Phrase |
| S30 | S10 OR S29 | Search modes - Boolean/Phrase |
| S29 | S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR | Limiters - Exclude MEDLINE records; |
| 025 | S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR | Language: English |
| | S27 OR S28 | Search modes - Boolean/Phrase |
| S28 | (MH "Quality of Life") AND TX (health-related quality of life) | Search modes - Boolean/Phrase |
| | | |
| S27 | (MH "Quality of Life") AND TI (quality of life or qol) | Search modes - Boolean/Phrase |
| S26 | AB ((qol or hrqol or quality of life) AND ((qol or hrqol* or quality of life) N2 | Search modes - Boolean/Phrase |
| | (increas* or decreas* or improv* or declin* or reduc* or high* or low* or | |
| | effect or effects or worse or score or scores or change*1 or impact*1 or | |
| | impacted or deteriorat*))) | |
| S25 | (MH "Cost Benefit Analysis") AND TX ((quality of life or qol) or (cost- | Search modes - Boolean/Phrase |
| | effectiveness ratio* and (perspective* or life expectanc*)) | |
| S24 | (MH "Quality of Life") TX (health N3 status) | Search modes - Boolean/Phrase |
| S23 | (MH "Quality of Life") AND TX ((quality of life or qol) N (score*1 or | Search modes - Boolean/Phrase |
| | measure*1)) | |
| S22 | TX (time trade off*1 or time tradeoff*1 or tto or timetradeoff*1) | Search modes - Boolean/Phrase |
| S21 | TX (sf36 or sf 36 or sf thirty six or sf thirtysix) | Search modes - Boolean/Phrase |
| S20 | TX (euro* N3 (5 d* or 5 d* or 5 dimension* or 5 dimension* or 5 domain* | Search modes - Boolean/Phrase |
| 520 | or 5domain*)) | Search modes - Boolean/Phrase |
| 0.40 | | |
| S19 | TX (eq-5d* or eq5d* or eq-5* or eq5* or euroqual* or euro qual* or | Search modes - Boolean/Phrase |
| | euroqual 5d* or euro qual 5d* or euro qol* or euroqol*or euro quol* or | |
| | euroquol* or euro quol5d* or euroquol5d* or eur qol* or europt or eur | |
| | qol5d* or eurqol5d* or eur?qul* or eur?qul5d* or euro* quality of life or | |
| | european qol) | |
| S18 | TI utilities | Search modes - Boolean/Phrase |
| S17 | TX (utilit* N3 (score*1 or valu* or health* or cost* or measur* or disease* | Search modes - Boolean/Phrase |
| | or mean or gain or gains or index*)) | |
| S16 | TX (multiattibute* or multi attribute*) | Search modes - Boolean/Phrase |
| S15 | TX (hui or hui2 or hui3) | Search modes - Boolean/Phrase |
| S14 | TX (illness state* or health state*) | Search modes - Boolean/Phrase |
| S13 | TX (quality adjusted or quality adjusted life year*or qaly* or qal or qald* | Search modes - Boolean/Phrase |
| 010 | or qale* or qtime* or qwb* or daly) | |
| S12 | (MH "Sickness Impact Profile") | Search modes - Boolean/Phrase |
| S12 | · · · · | |
| | (MH "Quality-Adjusted Life Years") | Search modes - Boolean/Phrase |
| S10 | S5 OR S6 OR S7 OR S8 OR S9 | Limiters - Exclude MEDLINE records; |
| | | Language: English |
| | | Search modes - Boolean/Phrase |
| S9 | TX (value N2 (money or monetary)) | Search modes - Boolean/Phrase |
| S8 | TX (cost* N2 (effective* or utilit* or benefit* or minimi* or unit* or estimat* | Search modes - Boolean/Phrase |
| | or variable*)) | |
| S7 | TI cost* or economic* or pharmaco?economic* | Search modes - Boolean/Phrase |
| S6 | TX budget* or fee or fees or finance* or price* or pricing | Search modes - Boolean/Phrase |
| S5 | (MH "Fees and Charges+") OR (MH "Costs and Cost Analysis+") OR | Search modes - Boolean/Phrase |
| | (MH "Economics") OR (MH "Economic Value of Life") OR (MH | |
| | "Economics, Pharmaceutical") OR (MH "Economic Aspects of Illness") | |
| | OR (MH "Resource Allocation+") | |
| S4 | S1 OR S2 OR S3 | Limiters - Exclude MEDLINE records; |
| 34 | 51 OK 32 OK 33 | Language: English |
| | | Search modes - Boolean/Phrase |
| 60 | TY (depress* or dysphori* or dysthym* or malanabal* or accessed | Search modes - Boolean/Phrase |
| S3 | TX (depress* or dysphori* or dysthym* or melanchol* or seasonal affective disorder) | Search modes - Doolean/Phrase |
| 00 | | Counch modes - Declass /Dhreet |
| S2 | (MH "Adjustment Disorders+") OR (MH "Factitious Disorders") OR (MH | Search modes - Boolean/Phrase |
| | "Affective Disorders, Psychotic") | |

| # | Query | Limiters/Expanders |
|----|---|-------------------------------|
| S1 | (MH "Depression+") OR (MH "Premenstrual Dysphoric Disorder") OR (MH "Seasonal Affective Disorder") | Search modes - Boolean/Phrase |

Appendix C – Clinical evidence study selection

Clinical study selection for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

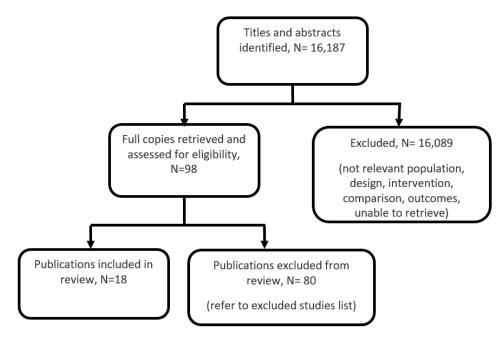


Figure 1: Study selection flow chart

Appendix D – Clinical evidence tables

Clinical evidence tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Please refer to the clinical evidence tables in supplement H – Clinical evidence tables for review 3.0

Appendix E – Forest plots

Forest plots for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Interventions to promote access for older adults

Comparison 1. Tele-problem solving therapy versus in-person problem solving therapy for older adults

Figure 2: Satisfaction (scores obtained in a treatment acceptance tool)

| | Experimental | | tal | Control | | | | Std. Mean Difference | Std. Mean Difference | | | |
|---|--------------|-----------|-------|---------|------|-------|--------|----------------------|---|--|--|--|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | IV, Fixed, 95% CI | | | |
| Choi 2014 | 72.14 | 6.64 | 43 | 68.08 | 8.27 | 42 | 100.0% | 0.54 [0.10, 0.97] | _ | | | |
| Total (95% CI) | | | 43 | | | 42 | 100.0% | 0.54 [0.10, 0.97] | • | | | |
| Heterogeneity: Not ap Test for overall effect: | • | |).02) | | | | | | -10 -5 0 5 10 Favours in-person PST Favours tele-PST | | | |

Comparison 2. Co-located services versus geographically separate services for older adults

Figure 3: Accessing treatment (number of participants who attended an appointment with a mental health provider following randomization at the index primary care visit)

| | Experimental | | Control | | Risk Ratio | | | Risk Ratio | | | |
|---|--------------|----------|---------|-------|------------|--------------------|------|-------------------------|----------------------------|-----|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% CI | | M-H, Fixe | ed, 95% CI | | |
| Bartels 2004 | 481 | 640 | 338 | 657 | 100.0% | 1.46 [1.34, 1.59] | | | | | |
| Total (95% CI) | | 640 | | 657 | 100.0% | 1.46 [1.34, 1.59] | | | • | | |
| Total events | 481 | | 338 | | | | | | | | |
| Heterogeneity: Not a Test for overall effect | | P < 0.00 | 001) | | | | 0.01 | 0.1 Favours separate | 1 10 Favours co-located | 100 | |

Figure 4: Uptake of treatment (number of treatment visits)

| | Expe | Experimental Co | | | | | | Std. Mean Difference | | | Std. Mean Difference | | |
|---|------|-----------------|---------|------|-----------|-------|--------|----------------------|-----|-------------------|----------------------|------------------|----------|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | | IV, | Fixed, 95% C | I | |
| Bartels 2004 | 3.5 | 3.9 | 687 | 2.22 | 3.9 | 703 | 100.0% | 0.33 [0.22, 0.43] | | | | | |
| Total (95% CI) | | | 687 | | | 703 | 100.0% | 0.33 [0.22, 0.43] | | | • | | |
| Heterogeneity: Not a Test for overall effect | | |).00001 | 1) | | | | | -10 | -5 Favours sep | 0 arate Favours | 5 s co-locate | 10 ed |

Comparison 3. Collaborative care versus standard care/enhanced standard care for older adults

Figure 5: Accessing treatment (number of patients using antidepressants)

| | Experim | ental | | | | Risk Ratio | Risk Ratio |
|-----------------------------------|--------------------------|----------|-------------|---------|--------------------------------|---------------------|----------------------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% Cl | M-H, Random, 95% Cl |
| Callahan 1994 | 26 | 100 | 6 | 75 | 24.5% | 3.25 [1.41, 7.50] | _ _ |
| Gilbody 2017 | 23 | 234 | 44 | 281 | 34.0% | 0.63 [0.39, 1.01] | |
| Unutzer 2002 | 649 | 889 | 497 | 870 | 41.5% | 1.28 [1.19, 1.37] | - |
| Total (95% CI) | | 1223 | | 1226 | 100.0% | 1.26 [0.66, 2.40] | • |
| Total events | 698 | | 547 | | | | |
| Heterogeneity: Tau ² = | = 0.26; Chi ^a | ²= 13.46 | 6, df = 2 (| P = 0.0 | 01); I^z = 89 | 5% | |
| Test for overall effect | : Z = 0.71 (| P = 0.48 |) | | | | Favours standard care Favours CC |

Figure 6: Accessing treatment (number of patients for whom a psychiatric consultation was sought)

| | Experim | ental | Cont | rol | | Risk Ratio | Risk Ratio |
|-----------------------------------|-------------|----------|--------|--------|--------------|---------------------|----------------------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% Cl | M-H, Random, 95% Cl |
| Callahan 1994 | 12 | 100 | 11 | 75 | 51.6% | 0.82 [0.38, 1.75] | |
| Chen 2015 | 17 | 164 | 7 | 162 | 48.4% | 2.40 [1.02, 5.63] | |
| Total (95% CI) | | 264 | | 237 | 100.0% | 1.38 [0.48, 3.97] | |
| Total events | 29 | | 18 | | | | |
| Heterogeneity: Tau ² = | | | | = 0.06 |); I² = 71 % | ò | |
| Test for overall effect: | Z = 0.59 (F | P = 0.55 |) | | | | Favours standard care Favours CC |

Figure 7: Uptake of treatment (number of participants starting antidepressant treatment)

| | Experim | ental | Cont | ol | | Risk Ratio | Risk Ratio |
|---|---------|---------|--------|-------|--------|--------------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| Ciechanowski 2004 | 7 | 72 | 4 | 66 | 100.0% | 1.60 [0.49, 5.23] | |
| Total (95% CI) | | 72 | | 66 | 100.0% | 1.60 [0.49, 5.23] | |
| Total events | 7 | | 4 | | | | |
| Heterogeneity: Not ap Test for overall effect: | • | = 0.43) | | | | | 0.01 0.1 1 10 100 Favours standard care Favours CC |

Figure 8: Satisfaction (number of patients rating depression care as 'excellent/very good')

| | Experim | ental | Control | | | Risk Ratio | Risk F | latio | |
|---|---------|----------|---------|-------|--------|--------------------|-------------------------------------|------------------|-----|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed | I, 95% CI | |
| Unutzer 2002 | 597 | 790 | 272 | 574 | 100.0% | 1.59 [1.45, 1.75] | | | |
| Total (95% CI) | | 790 | | 574 | 100.0% | 1.59 [1.45, 1.75] | | • | |
| Total events | 597 | | 272 | | | | | | |
| Heterogeneity: Not a Test for overall effect | •• | ⊃ < 0.00 | 001) | | | | 0.01 0.1 1 Favours standard care | 10 Favours CC | 100 |

Interventions to promote access for BME groups

Comparison 4. Culturally sensitive telepsychiatry versus treatment as usual for a BME population

Figure 9: Accessing treatment (number of patients who made a mental health appointment)

| | Experim | ental | Control | | | Risk Ratio | Risk Ratio |
|--------------------------|-------------|----------|---------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| Chong 2012 | 77 | 80 | 29 | 87 | 100.0% | 2.89 [2.14, 3.90] | |
| Total (95% CI) | | 80 | | 87 | 100.0% | 2.89 [2.14, 3.90] | • |
| Total events | 77 | | 29 | | | | |
| Heterogeneity: Not ap | oplicable | | | | | | |
| Test for overall effect: | Z = 6.92 (F | P < 0.00 | 001) | | | | 0.01 0.1 1 10 100 Favours TAU Favours CS-telepsychiatry |

Figure 10: Accessing treatment (number of patients who made a primary care appointment)

| | Experim | ental | Contr | rol | | Risk Ratio | Risk Ratio |
|---|---------|----------|--------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | I M-H, Fixed, 95% CI |
| Chong 2012 | 56 | 80 | 76 | 87 | 100.0% | 0.80 [0.68, 0.94] |] |
| Total (95% CI) | | 80 | | 87 | 100.0% | 0.80 [0.68, 0.94] | ı ◆ |
| Total events | 56 | | 76 | | | | |
| Heterogeneity: Not ap Test for overall effect: | • | P = 0.00 | 8) | | | | 0.01 0.1 1 10 100 Favours TAU Favours CS-telepsychiatry |

Figure 11: Accessing treatment (number of patients who used antidepressants)

| | Experim | ental | Control | | | Risk Ratio | Risk Ratio |
|---|---------|----------|---------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | I M-H, Fixed, 95% Cl |
| Chong 2012 | 56 | 80 | 40 | 87 | 100.0% | 1.52 [1.16, 1.99] |] |
| Total (95% CI) | | 80 | | 87 | 100.0% | 1.52 [1.16, 1.99] | ı ◆ |
| Total events | 56 | | 40 | | | | |
| Heterogeneity: Not a Test for overall effect | | P = 0.00 | 2) | | | | 0.01 0.1 1 10 100 Favours TAU Favours CS-telepsychiatry |

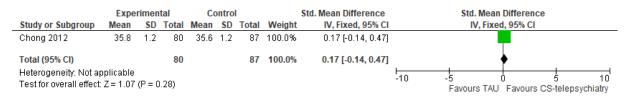
Figure 12: Uptake of treatment (mean number of completed mental health appointments)

| | Experimental | | Experimental Control | | | | Std. Mean Difference | | Std. Mean Difference | | | |
|---|--------------|--------|----------------------|------|-----------|-------|----------------------|--------------------|----------------------|---------------------|-------------|------------------------|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | | IV, Fixed | , 95% CI | |
| Chong 2012 | 4.8 | 2.7 | 77 | 4.3 | 3.6 | 29 | 100.0% | 0.17 [-0.26, 0.59] | | | | |
| Total (95% CI) | | | 77 | | | 29 | 100.0% | 0.17 [-0.26, 0.59] | | • | • | |
| Heterogeneity: Not a Test for overall effect | | (P = 0 |).44) | | | | | | -10 | -5 C Favours TAU | Favours CS- | 5 10 telepsychiatry |

Figure 13: Uptake of treatment (mean number of completed primary care appointments)

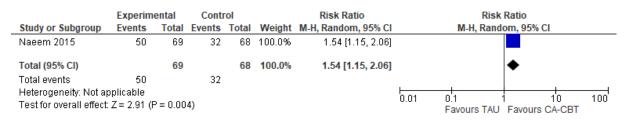
| | Expe | rimen | tal | Co | ontro | I | | Std. Mean Difference | | Std. Mean | Difference | | |
|---|------|-------|-------|------|-----------|-------|--------|----------------------|-----|-------------------|----------------------|----------------|---------------|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | | IV, Fixe | d, 95% CI | | |
| Chong 2012 | 3.2 | 3.8 | 56 | 3.2 | 2.7 | 76 | 100.0% | 0.00 [-0.35, 0.35] | | | | | |
| Total (95% CI) | | | 56 | | | 76 | 100.0% | 0.00 [-0.35, 0.35] | | | • | | |
| Heterogeneity: Not a Test for overall effect | | | .00) | | | | | | -10 | -5 Favours TAU | l 0 Favours CS | 5 -telepsyc | 10 chiatry |

Figure 14: Satisfaction (Visit Specific Satisfaction Questionnaire [VSQ-9])



Comparison 5. Culturally-adapted CBT versus treatment as usual for a BME population

Figure 15: Satisfaction (number of participants 'very satisfied' with treatment)



Comparison 6. Culturally adapted motivational enhancement therapy for antidepressants versus usual care for a BME population

Figure 16: Uptake of treatment (antidepressant adherence score on medication event monitoring system [MEMS])

| | Experimental Control | | | | | | Std. Mean Difference | Std. Mean Difference | |
|---|----------------------|------|---------|-------|-----------|-------|----------------------|----------------------|---|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | IV, Fixed, 95% CI |
| Interian 2013 | 59.81 | 6.51 | 26 | 33.57 | 6.78 | 24 | 100.0% | 3.89 [2.92, 4.86] | |
| Total (95% CI) | | | 26 | | | 24 | 100.0% | 3.89 [2.92, 4.86] | • |
| Heterogeneity: Not ap Test for overall effect: | • | | 0.00001 |) | | | | | -10 -5 0 5 10 Favours usual care Favours CA-META |

Comparison 7. Telephone CBT versus enhanced usual care for a BME population (living in rural areas)

Figure 17: Satisfaction (number reporting they were satisfied with the treatment provided)

| | Experim | ental | Contr | rol | | Risk Ratio | Risk Ratio |
|---|---------|-------|--------|-------|--------|---------------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | M-H, Random, 95% Cl |
| Dwight-Johnson 2011 | 24 | 50 | 12 | 51 | 100.0% | 2.04 [1.15, 3.62] | |
| Total (95% CI) | | 50 | | 51 | 100.0% | 2.04 [1.15, 3.62] | |
| Total events | 24 | | 12 | | | | |
| Heterogeneity: Not appl Test for overall effect: Z | | 0.01) | | | | | 0.1 0.2 0.5 1 2 5 10 Favours enhanced TAU Favours tele-CBT |

Comparison 8. Collaborative care versus enhanced standard care for BME population

Figure 18: Accessing treatment (number of patients receiving antidepressants)

| | Experim | ental | Contr | rol | | Risk Ratio | Risk Rati | 0 | |
|---|---------|----------|--------|-------|--------|--------------------|---|----------------|-----|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 9 | 5% CI | |
| Lagomasino 2017 | 77 | 171 | 41 | 158 | 100.0% | 1.74 [1.27, 2.37] | | | |
| Total (95% CI) | | 171 | | 158 | 100.0% | 1.74 [1.27, 2.37] | • | | |
| Total events | 77 | | 41 | | | | | | |
| Heterogeneity: Not a Test for overall effect | •• | P = 0.00 | 05) | | | | 0.01 0.1 1 Favours standard care Fav | 10 rours CC | 100 |

Figure 19: Accessing treatment (number of patients receiving minimally adequate treatment [counselling or medications])

| | Experim | Experimental Control | | | Risk Ratio | Risk Ratio | |
|---|---------|----------------------|--------|-------|------------|--------------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| Lagomasino 2017 | 131 | 170 | 33 | 157 | 100.0% | 3.67 [2.68, 5.02] | |
| Total (95% CI) | | 170 | | 157 | 100.0% | 3.67 [2.68, 5.02] | ◆ |
| Total events | 131 | | 33 | | | | |
| Heterogeneity: Not ap Test for overall effect: | | 0.00 × 0 | 001) | | | | 0.01 0.1 1 10 100 Favours standard care Favours CC |

Figure 20: Satisfaction (number of patients satisfied or very satisfied with emotional health care)

| | Experimental Control | | | Risk Ratio | Risk Ratio | | | |
|---|----------------------|----------|--------|------------|------------|--------------------|--|----|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% Cl | |
| Lagomasino 2017 | 145 | 170 | 90 | 160 | 100.0% | 1.52 [1.30, 1.76] | | |
| Total (95% CI) | | 170 | | 160 | 100.0% | 1.52 [1.30, 1.76] | • | |
| Total events | 145 | | 90 | | | | | |
| Heterogeneity: Not a Test for overall effect | | 0.00 × 0 | 001) | | | | 0.01 0.1 1 10 11 Favours standard care Favours CC | 00 |

Comparison 9. Culturally sensitive collaborative care versus standard collaborative care for BME population

Figure 21: Accessing treatment (number of patients taking any antidepressant)

| | Experim | ental | Contr | rol | | Risk Ratio | Risk Ratio |
|---|---------|-------|--------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| Cooper 2013 | 17 | 59 | 25 | 54 | 100.0% | 0.62 [0.38, 1.02] | |
| Total (95% CI) | | 59 | | 54 | 100.0% | 0.62 [0.38, 1.02] | • |
| Total events | 17 | | 25 | | | | |
| Heterogeneity: Not applicable Test for overall effect: Z = 1.88 (P = 0.06) | | | | | | | 0.01 0.1 1 10 100 Favours standard CC Favours cultural CC |

Figure 22: Accessing treatment (number of patients receiving any counselling)

| | Experim | ental | Cont | rol | | Risk Ratio | Risk Ratio |
|---|---------|---------------------|--------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% Cl |
| Cooper 2013 | 11 | 59 | 13 | 54 | 100.0% | 0.77 [0.38, 1.58] | |
| Total (95% CI) | | 59 | | 54 | 100.0% | 0.77 [0.38, 1.58] | - |
| Total events | 11 | | 13 | | | | |
| Heterogeneity: Not a Test for overall effect | | ^D = 0.48 |) | | | | 0.01 0.1 1 10 100 Favours standard CC Favours cultural CC |

Figure 23: Accessing treatment (number of patients receiving guideline-concordant depression treatment)

| | Experim | ental | Control | | | Risk Ratio | Risk Ratio |
|---|---------|----------|---------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed, 95% CI |
| Cooper 2013 | 17 | 59 | 28 | 54 | 100.0% | 0.56 [0.35, 0.89] | |
| Total (95% CI) | | 59 | | 54 | 100.0% | 0.56 [0.35, 0.89] | ◆ |
| Total events | 17 | | 28 | | | | |
| Heterogeneity: Not a Test for overall effect | | P = 0.02 |) | | | | 0.01 0.1 1 10 100 Favours standard CC Favours cultural CC |

Interventions to promote access for men

Comparison 10. Remote treatment versus face-to-face treatment for a predominantly male population

Figure 24: Satisfaction (number of patients satisfied/very satisfied with treatment)

| | Experim | ental | Contr | ol | | Risk Ratio | Risk Ratio |
|---|---------|----------|--------|-------|--------|--------------------|--|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% CI | M-H, Fixed, 95% CI |
| Yuen 2015 | 29 | 29 | 23 | 23 | 100.0% | 1.00 [0.93, 1.08] | • |
| Total (95% CI) | | 29 | | 23 | 100.0% | 1.00 [0.93, 1.08] | • |
| Total events | 29 | | 23 | | | | |
| Heterogeneity: Not a Test for overall effect | | P = 1.00 |) | | | | 0.01 0.1 1 10 100 Favours face-to-face Favours remote |

Figure 25: Satisfaction (Client Satisfaction Questionnaire [CSQ])

| | At home B | At home BA (web-based) In | | | In person BA (control) | | | Std. Mean Difference | Std. Mean Difference | | | |
|--|-----------|---------------------------|-------|-------|------------------------|-------|--------|----------------------|--|--|--|--|
| Study or Subgroup | Mean | SD | Total | Mean | SD | Total | Weight | IV, Fixed, 95% CI | IV, Fixed, 95% CI | | | |
| Luxton 2016 | 28.76 | 3.41 | 45 | 29.29 | 3.98 | 42 | 100.0% | -0.14 [-0.56, 0.28] | | | | |
| Total (95% CI) Heterogeneity: Not ap Test for overall effect: | • | 0.51) | 45 | | | 42 | 100.0% | -0.14 [-0.56, 0.28] | -10 -5 0 5 10 Favours face-to-face Favours remote | | | |

Comparison 11. Collaborative care versus standard care/enhanced standard care for a predominantly male population

Figure 26: Accessing treatment (number who attended ≥1 appointment with mental health specialist)

| | Experim | ental | Contr | ol | | Risk Ratio | Risk Ratio |
|---|---------|-------|--------|---------|------------|---------------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% Cl | M-H, Random, 95% Cl |
| Dobscha 2006 | 78 | 189 | 51 | 186 | 49.5% | 1.51 [1.13, 2.01] | |
| Hedrick 2003 | 60 | 168 | 69 | 186 | 50.5% | 0.96 [0.73, 1.27] | + |
| Total (95% CI) | | 357 | | 372 | 100.0% | 1.20 [0.77, 1.86] | ◆ |
| Total events | 138 | | 120 | | | | |
| Heterogeneity: Tau² = Test for overall effect: | | | | = 0.03) | ; I² = 79% | 5 | 0.01 0.1 1 10 100 Favours standard care Favours CC |

Figure 27: Accessing treatment (number who have had a depression-related primary care visit)

| | Experim | ental | Cont | ol | | Risk Ratio | Risk R | latio |
|-------------------------|---------------|----------|--------|-------|--------|--------------------|-----------------------|-----------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed | I, 95% CI |
| Hedrick 2003 | 141 | 168 | 106 | 186 | 100.0% | 1.47 [1.28, 1.70] | | |
| Total (95% CI) | | 168 | | 186 | 100.0% | 1.47 [1.28, 1.70] | | • |
| Total events | 141 | | 106 | | | | | |
| Heterogeneity: Not ap | pplicable | | | | | | | 10 100 |
| Test for overall effect | : Z = 5.37 (F | • < 0.00 | 001) | | | | Favours standard care | |

Figure 28: Accessing treatment (number of participants using antidepressants)

| | Experim | ental | Cont | rol | | Risk Ratio | Risk Ratio |
|-----------------------------------|--------------------------|----------|-----------|---------|------------------------|---------------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% Cl | M-H, Random, 95% CI |
| Dobscha 2006 | 150 | 189 | 129 | 186 | 48.0% | 1.14 [1.01, 1.29] | |
| Fortney 2007 | 84 | 110 | 88 | 133 | 27.1% | 1.15 [0.98, 1.35] | |
| Hedrick 2003 | 108 | 135 | 71 | 115 | 24.9% | 1.30 [1.10, 1.53] | - |
| Total (95% CI) | | 434 | | 434 | 100.0% | 1.18 [1.09, 1.29] | • |
| Total events | 342 | | 288 | | | | |
| Heterogeneity: Tau ² = | = 0.00; Chi ^a | = 1.54, | df = 2 (P | = 0.46) |); I ^z = 0% | | |
| Test for overall effect: | Z = 3.96 (F | P < 0.00 | 01) | | | | 0.01 0.1 1 10 100 Favours standard care Favours CC |

Figure 29: Satisfaction (number of patients satisfied with care)

| | Experim | ental | Cont | rol | | Risk Ratio | Risk F | latio |
|---|---------|----------|--------|-------|--------|--------------------|-------------------------------------|----------------------|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Fixed, 95% Cl | M-H, Fixed | I, 95% CI |
| Fortney 2007 | 100 | 141 | 113 | 184 | 100.0% | 1.15 [0.99, 1.35] | | |
| Total (95% CI) | | 141 | | 184 | 100.0% | 1.15 [0.99, 1.35] | | • |
| Total events | 100 | | 113 | | | | | |
| Heterogeneity: Not a Test for overall effect | •• | P = 0.07 |) | | | | 0.01 0.1 1 Favours standard care | 10 100 Favours CC |

Appendix F – GRADE tables

GRADE tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Interventions to promote access for older adults

Table 14: Clinical evidence profile for Comparison 1. Tele-problem solving therapy versus in-person problem solving therapy for older adults

| Quality | Quality assessment | | | | | | | Number of participants | | Effect | | |
|---------------------|-----------------------|----------------------|-----------------------------|----------------------------|----------------------|----------------------|-----------------------------|---------------------------------|----------------------|--|---------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Tele- problem solving | In-person problem solving | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Satisfac | tion (follow-u | up 3 months | ; measured with | : Scores obtai | ned in a treati | ment acceptance to | ol) | | | | | |
| 1 (Choi 2014) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 43 | 42 | - | SMD 0.54 higher (0.1 to 0.97 higher) | LOW | IMPORTANT |

CI: Confidence interval; SMD: standardised mean difference

1. Risk of bias is high or unclear across multiple domains

2. 95% CI crosses 1 clinical decision threshold

| Quality | Quality assessment | | | | | | Number of pa | rticipants | Effect | | | |
|----------------------------|---|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|---------------------|--|------------------------------|---|--------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Co-located services | Geographi cally separate services | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| | Accessing treatment (follow-up 6 months; measured with: Number of participants who attended an appointment with a mental health provider following randomization at the index primary care visit) | | | | | | | | | | | |
| 1 (Bartel s 2004) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 481/640 (75.2%) | 338/657 (51.4%) | RR 1.46 (1.34 to 1.59) | 237 more per 1000 (from 175 more to 304 more) | MODERA TE | CRITICAL |
| Uptake | of treatment | (follow-up 6 | months; measu | red with: Num | ber of treatme | ent visits) | | | | | | |

| Quality | Quality assessment | | | | | | | rticipants | Effect | | | |
|----------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|---------------------|--|----------------------|--|--------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Co-located services | Geographi cally separate services | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| 1 (Bartel s 2004) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 687 | 703 | - | SMD 0.33 higher (0.22 to 0.43 higher) | MODERA TE | CRITICAL |

CI: Confidence interval; RR: relative risk; SMD: standardised mean difference

1. Risk of bias is high or unclear across multiple domains

Table 16: Clinical evidence profile for Comparison 3. Collaborative care versus standard care/enhanced standard care for older adults

| Quality | assessment | | | | | | Number of pa | rticipants | Effect | | | |
|---|-----------------------|------------------------------|-----------------------------|----------------------------|------------------------------|-------------------------|------------------------|---|------------------------------|--|-------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Collaborativ e care | Standard care/enha nced standard care | Relative (95% Cl) | Absolute (95% CI) | Quality | Importance |
| | | | | | | ients using antidep | | | | | | |
| 3 (Calla han 1994; Gilbod y 2017; Unutz er 2002) | randomise d trials | serious ¹ | very serious ² | no serious indirectness | very serious ³ | none | 698/1223 (57.1%) | 547/1226 (44.6%) | RR 1.26 (0.66 to 2.4) | 116 more per 1000 (from 152 fewer to 625 more) | VERY LOW | CRITICAL |
| Accessi | ing treatment | t (follow-up | 3-12 months; me | asured with: N | Number of pat | ients for whom a ps | ychiatric consu | ltation was s | ought) | | | |
| 2 (Calla han 1994; Chen 2015) | randomise d trials | serious ¹ | serious ⁴ | no serious indirectness | very serious ³ | none | 29/264 (11%) | 18/237 (7.6%) | RR 1.38 (0.48 to 3.97) | 29 more per 1000 (from 39 fewer to 226 more) | VERY LOW | CRITICAL |
| Uptake | of treatment | (follow-up 6 | months; measu | red with: Num | ber of particip | ants starting antide | pressant treatm | nent) | | | | |
| 1 (Ciech anows ki 2004) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | very serious ³ | none | 7/72 (9.7%) | 4/66 (6.1%) | RR 1.6 (0.49 to 5.23) | 36 more per 1000 (from 31 fewer to 256 more) | VERY LOW | CRITICAL |

| Quality | uality assessment | | | | | | Number of pa | rticipants | Effect | | | |
|----------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|------------------------|---|------------------------------|---|--------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Collaborativ e care | Standard care/enha nced standard care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| 1 (Unutz er 2002) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 597/790 (75.6%) | 272/574 (47.4%) | RR 1.59 (1.45 to 1.75) | 280 more per 1000 (from 213 more to 355 more) | MODERA TE | IMPORTANT |

CI: Confidence interval; RR: relative risk

1. Risk of bias is high or unclear across multiple domains

2. I-squared>80%

3. 95% CI crosses 2 clinical decision thresholds

4. I-squared>50%

Interventions to promote access for BME groups

Table 17: Clinical evidence profile for Comparison 4. Culturally sensitive telepsychiatry versus treatment as usual for a BME population

| Quality | uality assessment | | | | | | Number of pa | rticipants | Effect | | | |
|--------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|--|---|------------------|------------------------------|---|--------------|------------|
| Nº of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations ts who made a men | Culturally sensitive telepsychiat ry tal health appoi | TAU | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| 1 (Chon g 2012) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 77/80 (96.3%) | 29/87 (33.3%) | RR 2.89 (2.14 to 3.9) | 630 more per 1000 (from 380 more to 697 more) | MODERA TE | CRITICAL |
| Accessi | ng treatment | (follow-up | 6 months; meas | ured with: Nun | nber of patien | ts who made a prim | ary care appoir | ntment) | | | | |
| 1 (Chon g 2012) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 56/80 (70%) | 76/87 (87.4%) | RR 0.8 (0.68 to 0.94) | 175 fewer per 1000 (from 52 fewer to 280 fewer) | LOW | CRITICAL |
| Accessi | ng treatment | (follow-up | 6 months; meas | ured with: Nun | nber of patien | ts who used antide | oressants) | | | | | |
| 1 (Chon | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 56/80 (70%) | 40/87 (46%) | RR 1.52 (1.16 to 1.99) | 239 more per 1000 (from 74 | LOW | CRITICAL |

Depression in adults: Evidence review H FINAL (June 2022)

| Quality | assessment | | | | | | Number of pa | rticipants | Effect | | | |
|--------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|---|------------|----------------------|--|--------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Culturally sensitive telepsychiat ry | TAU | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| g 2012) | | | | | | | | | | more to 455 more) | | |
| Uptake | of treatment | (follow-up 6 | months; measu | red with: Mear | number of co | ompleted mental he | alth appointme | nts) | | | | |
| 1 (Chon g 2012) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 77 | 29 | - | SMD 0.17 higher (0.26 lower to 0.59 higher) | LOW | CRITICAL |
| Uptake | of treatment (| (follow-up 6 | months; measu | red with: Mear | number of co | ompleted primary c | are appointmen | ts) | | | | |
| 1 (Chon g 2012) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 56 | 76 | - | SMD 0 higher (0.35 lower to 0.35 higher) | MODERA TE | CRITICAL |
| Satisfac | tion (follow-ເ | up 6 months | ; measured with | : Visit specific | satisfaction of | questionnaire (VSQ | -9)) | | | | | |
| 1 (Chon g 2012) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 80 | 87 | - | SMD 0.17 higher (0.14 lower to 0.47 higher) | MODERA TE | IMPORTANT |

BME: Black minority ethnic; CI: Confidence interval; RR: relative risk; SMD: standardised mean difference; TAU: treatment as usual

1. Risk of bias is high or unclear across multiple domains

2. 95% CI crosses 1 clinical decision threshold

Table 18: Clinical evidence profile for Comparison 5. Culturally-adapted CBT versus treatment as usual for a BME population

| Quality | assessment | | • | - | | , , | Number of pa | rticipants | Effect | | | |
|--------------------------|-----------------------|------------------------------|-----------------------------|----------------------------|----------------------|-------------------------|-------------------------------|------------------|------------------------------|--|-------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Culturally- adapted CBT | TAU | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Satisfac | tion (follow-u | up 3 months | ; measured with | : Number of p | articipants 've | ery satisfied' with tre | eatment) | | | | | |
| 1 (Naee m 2015) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 50/69 (72.5%) | 32/68 (47.1%) | RR 1.54 (1.15 to 2.06) | 254 more per 1000 (from 71 more to 499 more) | VERY LOW | IMPORTANT |

BME: Black minority ethnic; CI: Confidence interval; RR: relative risk; TAU: treatment as usual

1. Risk of bias is high or unclear across multiple domains

2. 95% CI crosses 1 clinical decision threshold

| Quality | Quality assessment | | | | | | | rticipants | Effect | | | |
|-----------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|---|----------------|----------------------|--|--------------|------------|
| Nº of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Culturally- adapted motivationa I enhanceme nt therapy for antidepress ants | Usual care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Uptake | of treatment | (follow-up 5 | months; measu | red with: Antic | lepressant ad | herence score on n | nedication even | t monitoring s | ystem (MEMS | 5)) | | |
| 1 (Interi an 2013) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 26 | 24 | - | SMD 3.89 higher (2.92 to 4.86 higher) | MODERA TE | CRITICAL |

Table 19: Clinical evidence profile for Comparison 6. Culturally adapted motivational enhancement therapy for antidepressants versus usual care for a BME population

BME: Black minority ethnic; CI: Confidence interval; SMD: standardised mean difference

1. Risk of bias is high or unclear across multiple domains

Table 20: Clinical evidence profile for Comparison 7. Telephone CBT versus enhanced usual care for a BME population (living in rural areas)

| Quality | assessment | | | | | Number of participants | | Effect | | | | |
|---|--|------------------------------|-----------------------------|----------------------------|----------------------|-------------------------|------------------|------------------------|------------------------------|--|-------------|------------|
| Nº of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Telephone CBT | Enhanced usual care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Satisfac | Satisfaction (follow-up 6 months; measured with: Number reporting they were satisfied with t | | | | | | | vided) | | | | |
| 1 (Dwig ht- Johns on 2011) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 24/50 (48%) | 12/51 (23.5%) | RR 2.04 (1.15 to 3.62) | 245 more per 1000 (from 35 more to 616 more) | VERY LOW | IMPORTANT |

BME: Black minority ethnic; CI: Confidence interval; RR: relative risk

1. Risk of bias is high or unclear across multiple domains

2. 95% Ci crosses 1 clinical decision threshold

| | | ••••• | | | | | | | | • · • · • · · · - • | | |
|-----------------------------------|-----------------------|----------------------|-----------------------------|----------------------------|---------------------------|-------------------------|------------------------|------------------------------|------------------------------|---|--------------|------------|
| Quality | assessment | | | | | | Number of pa | rticipants | Effect | | | |
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Collaborativ e care | Enhanced standard care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Accessi | ng treatment | (follow-up | 4 months; meas | ured with: Nun | nber of patient | ts receiving antidep | pressants) | | | | | |
| 1 (Lago masin o 2017) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 77/171 (45%) | 41/158 (25.9%) | RR 1.74 (1.27 to 2.37) | 192 more per 1000 (from 70 more to 356 more) | MODERA TE | CRITICAL |
| Accessi | ng treatment | (follow-up | 4 months; meas | ured with: Nun | nber of patient | ts receiving minima | Illy adequate tre | eatment (coun | selling or med | lications)) | | |
| 1 (Lago masin o 2017) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 131/170 (77.1%) | 33/157 (21%) | RR 3.67 (2.68 to 5.02) | 561 more per 1000 (from 353 more to 845 more) | MODERA TE | CRITICAL |
| Satisfac | tion (follow-u | up 4 months | ; measured with | : Number of p | atients satisfie | ed or very satisfied | with emotional | health care) | | | | |
| 1 (Lago masin o 2017) | randomise d trials | serious ¹ | no serious inconsistency | no serious indirectness | no serious imprecision | none | 145/170 (85.3%) | 90/160 (56.3%) | RR 1.52 (1.3 to 1.76) | 292 more per 1000 (from 169 more to 428 more) | MODERA TE | IMPORTANT |

Table 21: Clinical evidence profile for Comparison 8. Collaborative care versus enhanced standard care for BME population

BME: Black minority ethnic; CI: Confidence interval; RR: relative risk

1. Risk of bias is high or unclear across multiple domains

Table 22: Clinical evidence profile for Comparison 9. Culturally sensitive collaborative care versus standard collaborative care for BME population

| Quality | Quality assessment | | | | | | | Number of participants | | Effect | | |
|---------------------------|-----------------------|------------------------------|-----------------------------|----------------------------|----------------------|-------------------------|---|------------------------------------|------------------------------|---|-------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Culturally sensitive collaborativ e care | Standard collaborati ve care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Accessi | ng treatment | (follow-up | 12 months; mea | sured with: Nu | mber of patie | nts taking any antid | lepressant) | | | | | |
| 1 (Coop er 2013) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 17/59 (28.8%) | 25/54 (46.3%) | RR 0.62 (0.38 to 1.02) | 176 fewer per 1000 (from 287 fewer to 9 more) | VERY LOW | CRITICAL |

| Quality | Quality assessment | | | | | | Number of pa | rticipants | Effect | | | |
|---------------------------|-----------------------|------------------------------|-----------------------------|----------------------------|------------------------------|-------------------------|---|------------------------------------|------------------------------|---|-------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Culturally sensitive collaborativ e care | Standard collaborati ve care | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| 1 (Coop er 2013) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | very serious ³ | none | 11/59 (18.6%) | 13/54 (24.1%) | RR 0.77 (0.38 to 1.58) | 55 fewer per 1000 (from 149 fewer to 140 more) | VERY LOW | CRITICAL |
| Accessi | ing treatment | (follow-up | 12 months; mea | sured with: Nu | mber of patie | nts receiving guide | ine-concordant | t depression t | reatment) | | | |
| 1 (Coop er 2013) | randomise d trials | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 17/59 (28.8%) | 28/54 (51.9%) | RR 0.56 (0.35 to 0.89) | 228 fewer per 1000 (from 57 fewer to 337 fewer) | VERY LOW | CRITICAL |

BME: Black minority ethnic; CI: Confidence interval; RR: relative risk

1. Risk of bias is high or unclear across multiple domains

2. 95% CI crosses 1 clinical decision threshold

3. 95% CI crosses 2 clinical decision thresholds

Interventions to promote access for men

Table 23: Clinical evidence profile for Comparison 10. Remote treatment versus face-to-face treatment for a predominantly male population

| Quality | assessment | | | | | | Number of pa | rticipants | Effect | | | |
|---------------------------|-----------------------|----------------------|-----------------------------|----------------------|---------------------------|-------------------------|---------------------|-------------------------------|------------------------|--|-------------|------------|
| Nº of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Remote treatment | Face-to- face treatment | Relative (95% Cl) | Absolute (95% Cl) | Quality | Importance |
| Satisfac | tion (follow-u | up 3 months | ; measured with | : Number of p | atients satisfi | ed/very satisfied wit | th treatment) | | | | | |
| 1 (Yuen 2015) | randomise d trials | serious ¹ | no serious inconsistency | serious ² | no serious imprecision | none | 29/29 (100%) | 23/23 (100%) | RR 1 (0.93 to 1.08) | 0 fewer per 1000 (from 70 fewer to 80 more) | LOW | IMPORTANT |
| Satisfac | tion (follow-u | up 2 months | ; measured with | : Client Satisfa | action Questic | onnaire (CSQ)) | | | | | | |
| 1 (Luxto n 2016) | randomise d trials | serious ¹ | no serious inconsistency | serious ² | serious ³ | none | 45 | 42 | - | SMD 0.14 lower (0.56 lower to 0.28 higher) | VERY LOW | IMPORTANT |

CI: Confidence interval; RR: relative risk; SMD: standardised mean difference

1. Risk of bias is high or unclear across multiple domains

2. Sample of veterans accessing treatment through Veteran Affairs services which may limit generalisability 3. 95% CI crosses 1 clinical decision threshold

| Table 24: Clinical evidence profile for Comparison 11. Collaborative care versus standard care/enhanced standard care for a |
|---|
| predominantly male population |

| Quality | assessment | | | | | | Number of pa | rticipants | Effect | | | |
|--|-----------------------|------------------------------|-----------------------------|----------------------|------------------------------|-------------------------|------------------------|---|------------------------------|---|-------------|------------|
| № of studie s | Study design | Risk of bias | Inconsistenc y | Indirectnes s | Imprecisio n | Other considerations | Collaborativ e care | Standard care/enha nced standard care | Relative (95% Cl) | Absolute (95% CI) | Quality | Importance |
| Accessi | ng treatment | (follow-up | 3-12 months; me | asured with: N | Number who a | ttended ≥1 appoint | ment with ment | al health spec | ialist) | | | |
| 2 (Dobs cha 2006; Hedric k 2003) | randomise d trials | very serious ¹ | serious ² | serious ³ | very serious ⁴ | none | 138/357 (38.7%) | 120/372 (32.3%) | RR 1.2 (0.77 to 1.86) | 65 more per 1000 (from 74 fewer to 277 more) | VERY LOW | CRITICAL |
| Accessi | ng treatment | (follow-up | 8 months; meas | ured with: Nun | nber who have | e had a depression- | related primary | care visit) | | | | |
| 1 (Hedri ck 2003) | randomise d trials | very serious ¹ | no serious inconsistency | serious ³ | no serious imprecision | none | 141/168 (83.9%) | 106/186 (57%) | RR 1.47 (1.28 to 1.7) | 268 more per 1000 (from 160 more to 399 more) | VERY LOW | CRITICAL |
| Accessi | ng treatment | (follow-up | 3-12 months; me | asured with: N | Number of par | ticipants using anti | depressants) | | | | | |
| 3 (Dobs cha 2006; Fortne y 2007; Hedric k 2003) | randomise d trials | very serious ¹ | no serious inconsistency | serious ³ | serious ⁵ | none | 342/434 (78.8%) | 288/434 (66.4%) | RR 1.18 (1.09 to 1.29) | 119 more per 1000 (from 60 more to 192 more) | VERY LOW | CRITICAL |
| Satisfac | tion (follow-u | up 12 month | s; measured wit | h: Number of | patients satisf | ied with care) | | | | | | |
| 1 (Fortn ey 2007) | randomise d trials | very serious ¹ | no serious inconsistency | serious ³ | serious⁵ | none | 100/141 (70.9%) | 113/184 (61.4%) | RR 1.15 (0.99 to 1.35) | 92 more per 1000 (from 6 fewer to 215 more) | VERY LOW | IMPORTANT |

CI: Confidence interval; RR: relative risk

1. Risk of bias is high or unclear across multiple domains

2. I-squared>50%

3. Sample of veterans accessing treatment through Veteran Affairs services which may limit generalisability 4. 95% CI crosses 2 clinical decision thresholds

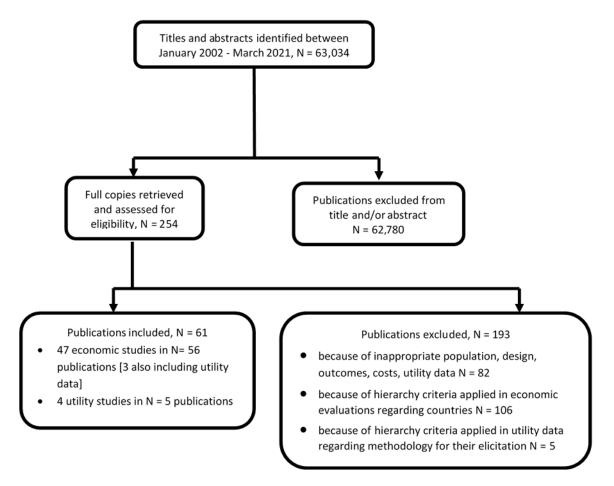
5. 95% CI crosses 1 clinical decision threshold

Appendix G – Economic evidence study selection

Economic evidence study selection for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

A global health economics search was undertaken for all areas covered in the guideline. Figure 30 shows the flow diagram of the selection process for economic evaluations of interventions and strategies for adults with depression and studies reporting depressionrelated health state utility data.

Figure 30. Flow diagram of selection process for economic evaluations of interventions and strategies for adults with depression and studies reporting depression-related health state utility data.



Appendix H – Economic evidence tables

Economic evidence tables for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

No economic evidence was identified which was applicable to this review question.

Appendix I – Economic evidence profiles

Economic evidence profiles for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

No economic evidence was identified which was applicable to this review question.

Appendix J – Economic analysis

Economic evidence analysis for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

No economic analysis was conducted for this review question.

Appendix K – Excluded studies

Excluded clinical and economic studies for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Clinical studies

Please refer to the excluded studies in supplement H – Clinical evidence tables for review 3.0

Economic studies

Please refer to supplement 3 - Economic evidence included & excluded studies.

Appendix L – Research recommendations

Research recommendations for review question: For adults at risk of depression (or anxiety disorders) from particular vulnerable groups (older people, black minority ethnic groups, lesbian, gay bisexual, transgender groups and men) do service developments and interventions which are specifically designed to promote access, increase the proportion of people from the target group who access treatment, when compared with standard care?

Research question

What are the most effective and cost effective methods to promote increased access to, and uptake of, treatments for people with depression who are under-represented in current services?

Why this is important

There is general under-recognition of depression but the problem is more marked in certain populations. In addition, even where depression is recognised by the person with depression or by health professionals, access to treatment can still be difficult. A number of factors may relate to this limited access including a person's view of their problems, the information available on services and the location, design and systems for referral to services. The aim of this research would be to identify methods to increase access to and uptake of treatment in these hard-to-reach groups, and so improve outcomes.

| Research question | What are the most effective and cost effective methods to promote increased access to, and uptake of, treatments for people with depression who are under-represented in current services? |
|--|--|
| Importance to 'patients' or the population | There are groups within the population who find it more difficult than others to access treatment for depression, for example those from minority ethnic communities, those with disabilities or older people. Identifying how interventions can be targeted or adapted to meet the needs of these people and enable them to access services can lead to effective treatment of their depression, improved quality of life and improved functioning. |
| Relevance to NICE guidance | The NICE guideline on depression recommends treatments for first-line treatment, further-line treatment, relapse prevention and chronic depression, but these treatments will not be effective if they cannot be accessed. As there is evidence that certain sections of the population find it more difficult to access treatment for depression, it is important to improve access to ensure that the treatment recommendations are available all those who suffer from depression. |
| Relevance to the NHS | Failure to treat depression in marginalised groups may to lead to a greater impact on NHS resources in the long-term, |
| National priorities | The NHS Five Year Forward plan makes access to mental health services a key national priority |
| Current evidence base | A number of studies have addressed reduced access to treatment for depression, and a number of strategies have been developed to address it but no consistent picture has emerged from the research which can inform the design and delivery of services to promote access. Little is also known about how these systems might be tailored to the needs of particular groups such as older people, people from black, Asian and minority ethnic communities, and people with disabilities who may have additional difficulties in accessing services. |
| Equality | All sections of the population should have equal access to services for the treatment of depression |

Table 25: Research recommendation rationale

| Criterion | Explanation |
|--------------------------------------|--|
| Population | Adults (18 years and older) identified with or at risk of depression from the following vulnerable groups: BME groups Older adults LGBT groups Men People with disabilities |
| Intervention | Service developments or changes which are specifically designed to promote access. Specific models of service delivery (that is, community-based outreach clinics, clinics or services in non-health settings). Methods designed to remove barriers to access (including stigma, misinformation or cultural beliefs about the nature of mental disorder) |
| Comparator (without the risk factor) | Standard care |
| Outcome | Critical: Proportion of people from the target group who access treatment Uptake of treatment Symptomatology, response, remission and relapse Important: Satisfaction, preference Anxiety about treatment Cost-effectiveness to be included as an outcome as well. |
| Study design | Randomised controlled trials |
| Timeframe | 6 to 12 months; ideally follow-up study to assess remission/relapse |

Table 26: Research recommendation modified PICO table