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1 **APPENDIX 1: SCOPE FOR THE DEVELOPMENT OF THE**
2 **CLINICAL GUIDELINE**

3 **1** GUIDELINE TITLE

4 Self-harm: the longer term management of self-harm

5 *1.1 Short title*

6 Self-harm (longer term management)

7 **2** THE REMIT

8 The Department of Health has asked NICE: 'To prepare a clinical guideline on
9 the management of self-harm (intentional self-poisoning or self-injury,
10 irrespective of the apparent purpose of the act) to include the role of mental
11 health professionals in ensuring service users who have self-harmed receive
12 appropriate treatment for underlying problems that may have led to the act of
13 self-harm.' It will cover the longer term management of self-harm in a variety
14 of settings.

15 This guideline follows on from 'Self-harm: The short-term physical and
16 psychological management and secondary prevention of self-harm in primary
17 and secondary care' (NICE clinical guideline 16).

18 **3** CLINICAL NEED FOR THE GUIDELINE

19 *3.1 Epidemiology*

20 The prevalence of self-harm is difficult to estimate. A national interview
21 survey in 1999 suggested between 4.6% and 6.6% of people in the UK have
22 self-harmed. A more recent international survey of young people aged 15-16
23 found the prevalence of self-harm (in the past year) in the UK was 3.2% in
24 boys and 11.1% in girls. The lifetime prevalence for self-harm in the UK was
25 4.8% in boys and 16.7% in girls.

- 26
- 27 a. A survey of general hospitals in Oxford, Manchester and Leeds found
28 7344 people presented with a total of 10,498 episodes of self-harm.
29 Most episodes (80%) were due to self-poisoning and the rest to self-
30 injury (mainly self-cutting). Although most research to date has been
31 hospital-based, it is likely that many self-harm episodes do not come to
32 the attention of health services.
 - 33 b. A recent systematic review in the UK found that there was a higher
34 prevalence of self-harm in South Asian women than in either South
35 Asian men or white women.

36 *3.2 Current practice*

- 37 c. Self-harm is usually managed in secondary care. This includes hospital
38 medical care and mental health services. About half of the people who

1 present to an accident and emergency (A&E) department after self-
2 harming are assessed by a mental health professional. Treatments
3 include psychosocial interventions, pharmacological interventions and
4 harm minimisation.

5 d. People who self-harm often also have contact with primary care. About
6 half of the people who attend an emergency department after self-
7 harming will have visited their GP in the previous month. A similar
8 proportion will visit their GP within 2 months of attending an A&E
9 department after self-harming.

10 4 THE GUIDELINE

11 The guideline development process is described in detail on the NICE website
12 (see section 6, 'Further information').

13 This scope defines what the guideline will (and will not) examine, and what
14 the guideline developers will consider. The scope is based on the referral from
15 the Department of Health.

16 The areas that will be addressed by the guideline are described in the
17 following sections.

18 4.1 *Population*

19 4.1.1 **Groups that will be covered**

20 a. All people aged 8 years or older who self-harm.

21 4.1.2 **Groups that will not be covered**

22 a. Children younger than 8 years.

23 b. People with a neurodevelopmental disorder with repetitive
24 stereotypical self-injurious behaviour (SIB), for example head-banging
25 in people with a significant learning disability.

26 4.2 *Healthcare setting*

27 a. Care received in primary, secondary, tertiary and community
28 healthcare settings from healthcare professionals who have direct
29 contact with people who self-harm, and who make decisions about risk
30 assessment, needs assessment, treatment and management of care for
31 people who self-harm.

32 b. The guideline will not provide specific recommendations for A&E
33 departments, paramedic services, prison medical services, the police
34 and those who work in the criminal justice, social care and education
35 sectors, but the guideline will be relevant to their work.

36 4.3 *Clinical management*

37 4.3.1 **Key clinical issues that will be covered**

38 a. Medium and longer term care management of people who self-harm.

- 1 b. Ongoing psychosocial assessment for the longer term management of
- 2 people who have self-harmed. This will include an assessment of needs
- 3 and risk and how these are integrated.
- 4 c. Psychosocial interventions for the specific treatment of self-harm
- 5 compared with control groups and other active interventions. For
- 6 example, but not exclusively, self-help, problem-solving therapy,
- 7 mentalisation-based treatment, cognitive behavioural therapy,
- 8 dialectical behaviour therapy, cognitive analytic therapy,
- 9 psychodynamic psychotherapy and family therapy.
- 10 d. Pharmacological interventions for the specific treatment of self-harm
- 11 compared with control groups and psychological interventions. For
- 12 example, antidepressants, anxiolytics and antipsychotics when used as
- 13 a specific treatment for self-harm.
- 14 e. Safe prescribing for people with a history of self-harm.
- 15 f. Treatment of groups who may have specific care needs. For example,
- 16 those from black and minority ethnic groups, people who self-injure,
- 17 young people and older adults.
- 18 g. Harm minimisation and other strategies aimed at reducing the risks
- 19 and/or harm associated with self-harm. For example, advice on safer
- 20 cutting, distraction techniques and exploring alternatives to self-harm.
- 21 h. Possible adverse effects associated with treating self-harm.
- 22 i. Training for healthcare professionals treating people who self-harm.
- 23 j. When to refer to other NICE guidelines for the treatment and
- 24 management of any accompanying or underlying mental health
- 25 problems.

26 **4.3.2 Clinical issues that will not be covered**

- 27 a. Acute physical, psychiatric and psychological care of people who have
- 28 just self-harmed. For the immediate care of people who have self-
- 29 harmed, please see 'Self-harm: The short-term physical and
- 30 psychological management and secondary prevention of self-harm in
- 31 primary and secondary care' (NICE clinical guideline 16).
- 32 b. The treatment and management of any mental health problem or
- 33 substance use disorder that may accompany, underlie or be associated
- 34 with self-harm. However, the guideline will refer to other relevant
- 35 NICE guidance (see section 5.1.2).
- 36 c. Longer-term management of the physical consequences of self-harm,
- 37 such as reconstructive surgery, pain management and infection arising
- 38 from injuries.

39 **4.4 Main outcomes**

- 40 d. Self-harm and self-harm repetition (for example, self-poisoning or self-
- 41 cutting).
- 42 e. Suicide.
- 43 f. Quality of life.
- 44 g. Service user determined outcomes.

- 1 h. Secondary outcomes such as social and psychological functioning,
2 other causes of mortality, and resource use.

3 **4.5 Economic aspects**

4 Developers will take into account both clinical and cost effectiveness when
5 making recommendations involving a choice between alternative
6 interventions. A review of the economic evidence will be conducted and
7 analyses will be carried out as appropriate. The preferred unit of effectiveness
8 is the quality-adjusted life year (QALY), and the costs considered will usually
9 be only from an NHS and personal social services (PSS) perspective. Further
10 detail on the methods can be found in 'The guidelines manual' (see 'Further
11 information').

12 **4.6 Status**

13 **4.6.1 Scope**

14 This is the final scope.

15 **4.6.2 Timing**

16 The development of the guideline recommendations will begin in
17 November 2009.

18 **5 RELATED NICE GUIDANCE**

19 **5.1 Published guidance**

20 **5.1.1 NICE guidance to be updated**

21 When reviewing the evidence for this guideline a need maybe identified to
22 update the section on Psychological, pharmacological and psychosocial
23 interventions for the management of self-harm in Self-harm: NICE clinical
24 guideline 16 (2004). Available from www.nice.org.uk/CG16

25 **5.1.2 Other related NICE guidance**

- 26 • Schizophrenia (update). NICE clinical guideline 82 (2009). Available
27 from www.nice.org.uk/CG82
- 28 • Borderline personality disorder. NICE clinical guideline 78 (2009).
29 Available from www.nice.org.uk/CG78
- 30 • Antisocial personality disorder. NICE clinical guideline 77 (2009).
31 Available from www.nice.org.uk/CG77
- 32 • Bipolar disorder. NICE clinical guideline 38 (2006). Available from
33 www.nice.org.uk/CG38
- 34 • Obsessive compulsive disorder (OCD) and body dismorphic disorder
35 (BDD). NICE clinical guideline 31 (2005). Available from
36 www.nice.org.uk/CG31
- 37 • Depression in children and young people. NICE clinical guideline 28
38 (2005). Available from www.nice.org.uk/CG28

- 1 • Post-traumatic stress disorder. NICE clinical guideline 26 (2005).
2 www.nice.org.uk/CG26
- 3 • Violence. NICE clinical guideline 25 (2005). Available from
4 www.nice.org.uk/CG25
- 5 • Depression (amended). NICE clinical guideline 23 (amended 2007).
6 Available from www.nice.org.uk/CG23
- 7 • Anxiety (amended). NICE clinical guideline 22 (amended 2007).
8 Available from www.nice.org.uk/CG22
- 9 • Eating disorders. NICE clinical guideline 9 (2004). Available from
10 www.nice.org.uk/CG9

11 **5.1.3 Guidance under development**

12 NICE is currently developing the following related guidance (details available
13 from the NICE website).

- 14 • Depression in adults (update). NICE clinical guideline. Publication
15 expected October 2009.
- 16 • Depression in adults with a chronic physical health problem. NICE
17 clinical guideline. Publication expected October 2009.

18 6 FURTHER INFORMATION

19 Information on the guideline development process is provided in:

- 20 • 'How NICE clinical guidelines are developed: an overview for
21 stakeholders' the public and the NHS'
- 22 • 'The guidelines manual'.

23 These are available from the NICE website
24 (www.nice.org.uk/guidelinesmanual). Information on the progress of the
25 guideline will also be available from the NICE website (www.nice.org.uk).
26

1 **APPENDIX 2: DECLARATIONS OF INTERESTS BY GDG**
2 **MEMBERS**

3 With a range of practical experience relevant to the treatment and
4 management of psychosis in conjunction with substance misuse in the GDG,
5 members were appointed because of their understanding and expertise in
6 healthcare for people with psychosis and substance misuse and support for
7 their families/carers, including: scientific issues; health research; the delivery
8 and receipt of healthcare, along with the work of the healthcare industry; and
9 the role of professional organisations and organisations for people with
10 psychosis and substance misuse and their families/carers.

11
12 To minimise and manage any potential conflicts of interest, and to avoid any
13 public concern that commercial or other financial interests have affected the
14 work of the GDG and influenced guidance, members of the GDG must
15 declare as a matter of public record any interests held by themselves or their
16 families which fall under specified categories (see below). These categories
17 include any relationships they have with the healthcare industries,
18 professional organisations and organisations for people with psychosis and
19 substance misuse and their families/carers.

20
21 Individuals invited to join the GDG were asked to declare their interests
22 before being appointed. To allow the management of any potential conflicts of
23 interest that might arise during the development of the guideline, GDG
24 members were also asked to declare their interests at each GDG meeting
25 throughout the guideline development process. The interests of all the
26 members of the GDG are listed below, including interests declared prior to
27 appointment and during the guideline development process.

28
29 *Categories of interest*

30 *Paid employment*

31 **Personal pecuniary interest:** financial payments or other benefits from either
32 the manufacturer or the owner of the product or service under consideration
33 in this guideline, or the industry or sector from which the product or service
34 comes. This includes holding a directorship, or other paid position; carrying
35 out consultancy or fee paid work; having shareholdings or other beneficial
36 interests; receiving expenses and hospitality over and above what would be
37 reasonably expected to attend meetings and conferences.

38 **Personal family interest:** financial payments or other benefits from the
39 healthcare industry that were received by a member of your family.

40 **Non-personal pecuniary interest:** financial payments or other benefits
41 received by the GDG member's organisation or department, but where the
42 GDG member has not personally received payment, including fellowships
43 and other support provided by the healthcare industry. This includes a grant

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- 1 or fellowship or other payment to sponsor a post, or contribute to the running
 2 costs of the department; commissioning of research or other work; contracts
 3 with, or grants from, NICE.
 4 **Personal non-pecuniary interest:** these include, but are not limited to, clear
 5 opinions or public statements you have made about individuals with
 6 psychosis and substance misuse problems, holding office in a professional
 7 organisation or advocacy group with a direct interest in psychosis and
 8 substance misuse, other reputational risks relevant to psychosis and substance
 9 misuse.
 10

<i>Guideline Development Group - Declarations of interest</i>	
Professor Navneet Kapur - Chair, Guideline Development Group	
Employment	Professor of Psychiatry and Population Health (University of Manchester) Honorary Consultant Psychiatrist (Manchester Mental Health and Social Care Trust)
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	I am an academic and researcher in the field of suicidal behaviour. I am currently an investigator on several large research grants provided by the Department of Health, the National Patient Safety Agency, and the National Institute of Health Research. As part of my work, I apply for research funding from government and charitable organizations.
Personal non-pecuniary interest	I am an academic and researcher in the field of suicidal behaviour. I have published and presented widely in this area, expressing views on a number of diverse issues related to self-harm service provision.
Professor Tim Kendall - Facilitator	
Employment	Director, NCCMH Medical Director, Sheffield Health and Social Care Trust Consultant Adult Psychiatrist Visiting Professor, Research Department of Clinical, Educational and Health Psychology, University College London
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	Grant holder for £1.44 million per year (approx) from NICE for guidelines work. Work with NICE International.

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	Undertake some research into mental health, and the mental health workforce for DH, Royal College of Psychiatrists and the academy of medical royal colleges.
Personal non-pecuniary interest	None
Mr Gareth Allen	
Employment	Service User/ Carer representative
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Simon Baston	
Employment	Lead Nurse Liaison Psychiatry, Sheffield Health and Social Care NHS Foundation Trust
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Andrew Briggs	
Employment	Consultant Child and Adolescent Psychotherapist, Kent & Medway NHS and Social Care Partnership Trust
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Professor Stephen Briggs	
Employment	Consultant Social Worker, Tavistock And Portman NHS Foundation Trust Professor Of Social Work, University Of East London
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	Co-editor of a book, "Relating to self-harm and suicide; psychoanalytic perspectives on practice, theory and prevention" (published by Routledge, 2008)
Personal non-pecuniary interest	Clinician in a mental health service for young

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interest	people and deliver a 10 week training on working with suicidal and self harming young people. Have undertaken research and written on suicidal and self-harming young people, evaluated a respite centre (Maytree) and currently lead on a research project on self-harm in an emergency department.
Ms Julia Britton	
Employment	Child and Adolescent Psychotherapist and Head of Services, Open Door Young People's Consultation Service
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Anthony Cox	
Employment	PAPYRUS – Prevention of Young Suicide Service User/Carer representative
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	Coordinator for PAPYRUS Prevention of Young Suicide, a national charity which operates a telephone helpline and works to improve services for young people who may self-harm or attempt suicide. We give support and practical advice to young people worried about themselves or to anyone concerned about a young person they know.
Dr Jonathan Evans	
Employment	Consultant Senior Lecturer, University of Bristol
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Dr Paul Gill	
Employment	Consultant in Liaison Psychiatry, Sheffield Health and Social Care Chair, Faculty of Liaison Psychiatry, Royal

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	College of Psychiatrists
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Kate Hunt	
Employment	Lead Professional Consultant Clinical Psychologist- Acute & Crisis Services, Sussex Partnership NHS Foundation Trust
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	Led an audit of levels of self-harm within the Women's Secure & Forensic Services which led me to believe that the positive risk taking approach we used pointed to it being an effective intervention in reducing the frequency and severity of self-harming behaviours. We are planning to publish the results of this audit. However, this approach is recommended in the Mainstreaming Gender & Women's Mental Health Implementation Guidance (2003).
Dr Suzanne Kearney	
Employment	GP Registrar
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Professor Rory O'Connor	
Employment	Professor of Psychology, University of Stirling
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Richard Pacitti	
Employment	Chief Executive, Mind in Croydon

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	Service User/Carer representative
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Dr Michaela Swales	
Employment	Consultant Clinical Psychologist, North Wales Adolescent Service & Senior Lecturer, School of Psychology, Bangor University
Personal pecuniary interest	Under contract to write a book about problem-solving in the context of Dialectical Behaviour Therapy.
Personal family interest	My husband is the managing director of, and major share holder in, Integral Business Support Ltd, a company that is the sole UK provider of training in Dialectical Behaviour Therapy (DBT) a treatment considered by the self-harm guideline.
Non-personal pecuniary interest	<p>Director of the British Isles Training Team that provides training in DBT to mental health professionals and healthcare organisations throughout the UK and Eire. I fulfil this role as part of my University appointment within the School of Psychology, University of Wales, Bangor. The School of Psychology receives the income from my training in Dialectical Behaviour Therapy. This income funds my secretary at the University, training for clinicians in my local NHS Trust (North Wales NHS Trust) and at times part-funds a psychology assistant post in the clinical service in which I am employed (also North Wales NHS Trust).</p> <p>The School of Psychology was also in receipt of a grant from the ESRC, under the Knowledge Transfer Programme (KTP), to further develop training in DBT and increase dissemination of the treatment. The grant was awarded to the School of Psychology working jointly with Integral Business Support Ltd (see section above on Personal Family Interests). The grant from the ESRC was worth £104, 707 over three years (ended September 2010). The</p>

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	<p>company partner will contributed £50 760 to the project over the three year period.</p> <p>I have written a book on DBT from which I will receive royalties.</p>
Personal non-pecuniary interest	<p>Director of the British Isles DBT Training Team which is responsible for delivering all training in DBT in the UK and is in possession of a license to deliver the training from the American Training Company, BTech LLC. I regularly present at conferences and deliver training in DBT.</p>
Dr Alison Wood	
Employment	<p>Consultant in Adolescent Psychiatry, Cheshire and Mersey Regional Tier 4 Adolescent Service</p>
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
NCCMH team	
Mr Benedict Anigbogu	
Employment	<p>Health Economist, NCCMH (from October 2010)</p>
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Henna Bhatti	
Employment	<p>Research Assistant, NCCMH</p>
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Melissa Chan	
Employment	<p>Systematic Reviewer, NCCMH</p>
Personal pecuniary interest	None
Personal family interest	None

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Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Matthew Dyer	
Employment	Health Economist, NCCMH (until September 2010)
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Naomi Glover	
Employment	Research Assistant, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Marie Halton	
Employment	Research Assistant, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Ms Katherine Leggett	
Employment	Project Manager, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Mr Nick Meader	
Employment	Systematic Reviewer, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None

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Ms Sarah Stockton	
Employment	Senior Information Scientist, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None
Dr Clare Taylor	
Employment	Editor, NCCMH
Personal pecuniary interest	None
Personal family interest	None
Non-personal pecuniary interest	None
Personal non-pecuniary interest	None

1

1 **APPENDIX 3: SPECIAL ADVISORS TO THE GUIDELINE**
2 **DEVELOPMENT GROUP**

3

4 Professor Richard Jones, Consultant, Morgan Cole LLP

5

6 Professor Keith Hawton, Professor of Psychiatry, Oxford University/
7 Consultant Psychiatrist, Oxfordshire and Buckinghamshire Mental Health
8 NHS Foundation Trust

9

1 **APPENDIX 4: STAKEHOLDERS WHO RESPONDED TO**
2 **EARLY REQUESTS FOR EVIDENCE**

3

4 None

5

1 **APPENDIX 5: STAKEHOLDERS AND EXPERTS WHO**
2 **SUBMITTED COMMENTS IN RESPONSE TO THE**
3 **CONSULTATION DRAFT OF THE GUIDELINE**

4 **Stakeholders**

5 *To be inserted after consultation*

6 **Experts**

7 *To be inserted after consultation*

8

1 **APPENDIX 6: RESEARCHERS CONTACTED TO REQUEST**
2 **INFORMATION ABOUT UNPUBLISHED OR SOON-TO-BE**
3 **PUBLISHED STUDIES**

4 Ms Cheryl Hunter, Post-Graduate, The University of Manchester.

5

6 Ms Kerry Gutridge, Research Associate, Bristol University.

7

8 Professor Keith Hawton, Consultant Psychiatrist with Oxfordshire and
9 Buckinghamshire Mental Health NHS Foundation Trust.

10

11 Ms Sue Waterhouse, National Deputy Equality Lead, National Mental Health
12 Development Unit.

13

14 Dr Agnes Hultén, National Swedish and Stockholm County Centre for
15 Suicide Research and Prevention of Mental Ill-health, Stockholm, Sweden,

16

17 Dr Prathiba Chitsabesan, Lead Consultant, Child Psychiatrist for Stockport
18 CAMHS.

19

20 Professor Sunita Stewart, Department of Psychiatry, UT Southwestern
21 Medical Center, Dallas.

22

23 Professor Ian Colman, Assistant Professor, School of Public Health, University
24 of Alberta.

25

26 Dr Mari A Bjornaas, Department of Acute Medicine, Oslo University
27 Hospital, Norway.

28

29 Dr Alison Wood, Consultant in Adolescent Psychiatry, Cheshire and Mersey
30 Regional Tier 4 Adolescent Service.

31

1 **APPENDIX 7: ANALYTIC FRAMEWORK AND CLINICAL**
2 **QUESTIONS**

3
4 For the following clinical questions, separate analyses will be conducted
5 (where data is available) for groups identified in the scope that have specific
6 care needs:

- 7 Young people and older adults
8 BME groups
9

10 **1. Assessments**

11 1.1. For people who self-harm, does formal risk assessment, needs
12 assessment and psychosocial assessment improve outcomes?

13 (Note: Impact of setting/organizational context and content of
14 assessment to be taken into account if data is available)

15
16 1.2. What are the risk and protective factors (internal and external)
17 amongst people who self harm that predict outcomes (eg. Suicide,
18 non-fatal repetition, other psychological outcomes)?

19 **2. Psychosocial interventions**

20 2.1. For people who self-harm, do psychosocial interventions (compared
21 with no treatment or other interventions) improve outcomes? What
22 are the associated adverse effects?

23
24 - Interventions: Problem-solving, interpersonal therapy, cognitive
25 behavioural therapy, peer support groups, self help, computer-based
26 interventions, dialectical behaviour therapy, counselling,
27 psychodynamic interventions, family interventions, group therapy,
28 postcards, assertive outreach, multi-systemic therapy, respite care,
29 crisis management (refer to BPD guideline)

30
31 2.2. For people who self-harm, do psychosocial interventions in
32 combination with pharmacological interventions (compared with
33 psychosocial or pharmacological interventions alone) improve
34 outcomes? What are the associated adverse effects?

35 **3. Pharmacological Interventions**

36 3.1. For people who self-harm, do drug treatments improve outcomes?
37 What are the associated adverse effects?

- 1 - Interventions: Antidepressants, antipsychotics, lithium,
2 anticonvulsants (e.g. valproate, carbamazepine, lamotrigine),
3 benzodiazepines, analgesics

4 3.2. For people who self-harm, what are the key principles underlying
5 safer prescribing?

6 Consider:

- 7 - prescribing frequency - weekly, monthly

- 8 - toxicity of drug

9 **4. Self management and Harm minimisation**

10 4.1. For people who self-harm, does the provision of self management
11 and/or harm minimisation strategies, compared with no treatment or
12 treatment as usual, improve outcomes?

13

14 Interventions include: replacement therapy, positive emotion technique

15

16 **5. Training**

17 5.1. Does the provision of staff training (knowledge, skills based) improve
18 outcomes (eg. Staff attitudes, user satisfaction, user engagement with
19 services)?

20 Note: Impact of setting and content of training to be taken into account
21 if data is available

22

1 **APPENDIX 8: REVIEW PROTOCOLS**

2 **Appendix 8A: Risk and needs assessment**

Topic	[Risk and needs assessment]
Review question(s)	Q#1.1 For people who self-harm, does formal risk assessment, needs assessment and psychosocial assessment improve outcomes? (Note: Impact of setting/organizational context and content of assessment to be taken into account if data available)
Sub-question(s)	Are self-harm or suicide prediction scales clinically useful in predicting a repetition of self harm?
Chapter	5 - Psychosocial assessment
Sub-section	Section 5.3 Risk assessment scales Section 5.4 Needs assessment Section 5.5 Psychosocial assessment
Topic Group	Jonathan Evans (Editor) Rory O'Connor/ Kate Hunt/ Simon Baston/ Suzanne Kearney/ Michaela Swales
Sub-section lead	Jonathan Evans and Rory O'Connor
Objectives	See sub-question
Criteria for considering studies for the review	
• Intervention	N/A
• Comparator	N/A
• Types of participants	People who experience self-harm (or suicide ideation, where the study clearly reports a history of self-harm). This includes all types of self-harm, irrespective of motive.
• Critical outcomes	Prediction of repeated self-harm or suicide measured by sensitivity and specificity values.
• Important, but not critical outcomes	N/A
• Other outcomes	N/A
• Study design	Prospective cohort or case control studies
• Include unpublished data?	No
• Restriction by date?	No
• Dosage	N/A
• Minimum sample size	N/A
• Study setting	Inpatient and outpatient (as long as participants had history of previous self-harm)
Search strategy	Databases: EMBASE, MEDLINE, PsycINFO New search: CINAHL
Searching other resources	GDG members identified if any key studies were missed.
Existing reviews	
• Updated	N/A
• Not updated	N/A
General search filter used	See search strategy in Appendix
Question specific search filter	See search strategy in Appendix

CONSULTATION DRAFT

Amendments to filter/ search strategy	See search strategy in Appendix
The review strategy	The studies could not be meta analysed. Each study was narratively summarised. The studies which look at risk assessment scales were divided into sub-sections of those that predict a fatal and those that predict a non fatal outcome.
Additional assessments	<ol style="list-style-type: none">1. Exclude retrospective studies design;2. Exclude general population (without history of previous self harm)3. Exclude studies that use another scale as a reference standard to measure repetition of self harm.

1

1 Appendix 8b: Risk and protective factors

Topic	[Risk and protective factors]
Review question(s)	Q#1.2 What are the risk and protective factors (internal and external) amongst people who self harm that predict outcomes (eg. Suicide, non-fatal repetition, other psychological outcomes)?
Sub-question(s)	N/A
Chapter	6 - Psychosocial assessment
Sub-section	Section 6.2 Risk and protective factors
Topic Group	Jonathan Evans (Editor) Kate Hunt/ Simon Baston/ Suzanne Kearney/ Michaela Swales
Sub-section lead	Kate Hunt
Objectives	To explore the risk and protective factors associated with a repetition of self-harming behaviour
Criteria for considering studies for the review	
• Intervention	N/A
• Comparator	N/A
• Types of participants	Participants (aged 8 years old or above) admitted to hospital for treatment of index episode of self harm) Self-endorsed self-harming behaviour are also included.
• Critical outcomes	Repetition (fatal and non-fatal outcome)
• Important, but not critical outcomes	N/A
• Other outcomes	N/A
• Study design	Prospective cohort studies
• Include unpublished data?	No
• Restriction by date?	No
• Dosage	N/A
• Minimum sample size	N/A
• Study setting	Inpatient and outpatient (as long as participants had history of previous self-harm)
Search strategy	Databases: CINAHL, EMBASE, MEDLINE, PSYCINFO, HMIC, PsycEXTRA, PsycBOOKS New search:
Searching other resources	Experts in the field were contacted to identify if any key studies were missed.
Existing reviews	
• Updated	N/A
• Not updated	N/A
General search filter used	See search strategy in Appendix
Question specific search filter	See search strategy in Appendix
Amendments to filter/search strategy	See search strategy in Appendix

CONSULTATION DRAFT

The review strategy	2 independent reviewers reviewed the studies for its eligibility according to the inclusion criteria. Studies that meet eligibility will be examined to see if they could be meta-analysed. The criteria for inclusion in meta-analysis are the report of effects measure and its confidence interval. Studies that do not report effects measure and its confidence interval will be reviewed in a narrative manner.
Additional assessments	1. Exclude retrospective studies design; 2. Exclude general population (without history of previous self harm)

1

1 Appendix 8c: Psychological Interventions

Topic	[Psychological Interventions]
Review question(s)	Q#2 For people who self-harm, do psychosocial interventions (compared with no treatment or other interventions) improve outcomes? What are the associated adverse effects?
Sub-question(s)	2.2 For people who self-harm, do psychosocial interventions in combination with pharmacological interventions (compared with either interventions alone) improve outcomes? What are the associated adverse effects?
Chapter	7 - Psychosocial interventions
Sub-section	
Topic Group	7 - Rory O'Connor, Paul Gill, Stephen Briggs, Andrew Briggs, Alison Wood
Sub-section lead	N/A
Objectives	To review the effectiveness of interventions for the management of repetition of self-harm behaviour
Criteria for considering studies for the review	
<ul style="list-style-type: none"> Intervention 	Chapter 7 - Problem-solving, interpersonal therapy, cognitive behavioural therapy, peer support groups, self help, computer-based interventions, dialectical behaviour therapy, counselling, psychodynamic interventions, family interventions, group therapy, postcards, assertive outreach, multi-systemic therapy, respite care, crisis management (refer to BPD guideline)
<ul style="list-style-type: none"> Comparator 	Treatment as usual
<ul style="list-style-type: none"> Types of participants 	Participants (aged 8 years old or above) admitted to hospital for treatment of index episode of self harm) Self-endorsed self-harming behaviour are also included.
<ul style="list-style-type: none"> Critical outcomes 	Repetition (fatal outcome: completed suicide; non-fatal repetition)
<ul style="list-style-type: none"> Important, but not critical outcomes 	Depression, hopelessness, suicide ideation scores
<ul style="list-style-type: none"> Other outcomes 	N/A
<ul style="list-style-type: none"> Study design 	Randomized controlled trials
<ul style="list-style-type: none"> Include unpublished data? 	No
<ul style="list-style-type: none"> Restriction by date? 	No
<ul style="list-style-type: none"> Dosage 	N/A
<ul style="list-style-type: none"> Minimum sample size 	10 in each treatment arm
<ul style="list-style-type: none"> Study setting 	Inpatient and outpatient (as long as participants had history of previous self-harm)
Search strategy	Databases: CINAHL, EMBASE, MEDLINE, PSYCINFO, HMIC, PsycEXTRA, PsycBOOKS

CONSULTATION DRAFT

	New search:
Searching other resources	Experts in the field were contacted to identify if any key studies were missed.
Existing reviews	
<ul style="list-style-type: none"> • Updated 	Hawton 2011 Updated Cochrane review for self-harm interventions
<ul style="list-style-type: none"> • Not updated 	N/A
General search filter used	See search strategy in Appendix
Question specific search filter	See search strategy in Appendix
Amendments to filter/ search strategy	See search strategy in Appendix
The review strategy	Data from the Cochrane review update will be used for meta-analysis. Studies will be checked for our inclusion criteria.
Additional assessments	<ol style="list-style-type: none"> 1. Exclude non-randomized studies 2. Exclude studies that were designed for people with borderline personality disorder (refer to relevant NICE guideline)

1

1 Appendix 8d: Pharmacological Interventions

Topic	[Pharmacological Interventions]
Review question(s)	Q#3 For people who self-harm, do pharmacological interventions (compared with no treatment or other interventions) improve outcomes? What are the associated adverse effects?
Sub-question(s)	3.2 For people who self-harm, what are the key principles underlying safer prescribing?
Chapter	8 - Pharmacological interventions
Sub-section	
Topic Group	8 - Suzanne Kearney, Alison Wood, Paul Gill
Sub-section lead	N/A
Objectives	To review the effectiveness of interventions for the management of repetition of self-harm behaviour
Criteria for considering studies for the review	
<ul style="list-style-type: none"> Intervention 	Chapter 8 - Antidepressants, antipsychotics, lithium, anticonvulsants (e.g. valproate, carbamazepine, lamotrigine), benzodiazepines, analgesics
<ul style="list-style-type: none"> Comparator 	Treatment as usual or placebo
<ul style="list-style-type: none"> Types of participants 	Participants (aged 8 years old or above) admitted to hospital for treatment of index episode of self harm) Self-endorsed self-harming behaviour are also included.
<ul style="list-style-type: none"> Critical outcomes 	Repetition (fatal outcome: completed suicide; non-fatal repetition)
<ul style="list-style-type: none"> Important, but not critical outcomes 	Depression, hopelessness, suicide ideation scores
<ul style="list-style-type: none"> Other outcomes 	N/A
<ul style="list-style-type: none"> Study design 	Randomized controlled trials
<ul style="list-style-type: none"> Include unpublished data? 	No
<ul style="list-style-type: none"> Restriction by date? 	No
<ul style="list-style-type: none"> Dosage 	N/A
<ul style="list-style-type: none"> Minimum sample size 	10 in each treatment arm
<ul style="list-style-type: none"> Study setting 	Inpatient and outpatient (as long as participants had history of previous self-harm)
Search strategy	<p>Databases: CINAHL, EMBASE, MEDLINE, PSYCINFO, HMIC, PsycEXTRA, PsycBOOKS</p> <p>New search:</p>
Searching other resources	Experts in the field were contacted to identify if any key studies were missed.
Existing reviews	
<ul style="list-style-type: none"> Updated 	Hawton 2011 Updated Cochrane review for self-harm interventions
<ul style="list-style-type: none"> Not updated 	N/A

CONSULTATION DRAFT

General search filter used	See search strategy in Appendix
Question specific search filter	See search strategy in Appendix
Amendments to filter/ search strategy	See search strategy in Appendix
The review strategy	Data from the Cochrane review update will be used for meta-analysis. Studies will be checked for our inclusion criteria.
Additional assessments	<ol style="list-style-type: none">1. Exclude non-randomized studies2. Exclude studies that were designed for people with borderline personality disorder (refer to relevant NICE guideline)

1

1 Appendix 8e: Harm reduction

Topic	[Harm reduction]
Review question(s)	Q#4. For people who self-harm, does the provision of self management and/or harm minimisation/reduction strategies, compared with no treatment or treatment as usual, improve outcomes?
Sub-question(s)	N/A
Chapter	7 - Psychosocial interventions
Sub-section	7.3 Harm reduction
Topic Group	7 - Rory O'Connor, Paul Gill, Stephen Briggs, Andrew Briggs, Alison Wood 8 - Suzanne Kearney, Alison Wood, Paul Gill
Sub-section lead	N/A
Objectives	To review the evidence around harm minimisation/reduction techniques
Criteria for considering studies for the review	
• Intervention	replacement therapy, positive emotion technique
• Comparator	Treatment as usual
• Types of participants	Participants (aged 8 years old or above) admitted to hospital for treatment of index episode of self harm) Self-endorsed self-harming behaviour are also included.
• Critical outcomes	Repetition (fatal outcome: completed suicide; non-fatal repetition) Reduction in frequency or severity
• Important, but not critical outcomes	Depression, hopelessness, suicide ideation scores
• Other outcomes	N/A
• Study design	Any study designs (the GDG acknowledged the very limited evidence base in this area, therefore they decide to loosen the normal criteria)
• Include unpublished data?	Will be discussed if there are relevant materials
• Restriction by date?	No
• Dosage	N/A
• Minimum sample size	N/A
• Study setting	Inpatient and outpatient (as long as participants had history of previous self-harm)
Search strategy	Databases: CINAHL, EMBASE, MEDLINE, PSYCINFO, HMIC, PsycEXTRA, PsycBOOKS
Searching other resources	Experts in the field were contacted to identify if any key studies were missed.
Existing reviews	
• Updated	N/A
• Not updated	N/A
General search filter used	See search strategy in Appendix

CONSULTATION DRAFT

Question specific search filter	See search strategy in Appendix
Amendments to filter/ search strategy	See search strategy in Appendix
The review strategy	N/A
Additional assessments	N/A

1

1 Appendix 8f: Training

Topic	[Training]
Review question(s)	Q5.1 Does the provision of staff training (knowledge, skills based) improve outcomes (eg. Staff attitudes, user satisfaction, user engagement with services)?
Sub-question(s)	N/A
Chapter	5 - Training
Sub-section	N/A
Topic Group	N/A
Sub-section lead	N/A
Objectives	To review the evidence around effectiveness of training
Criteria for considering studies for the review	
• Intervention	Any knowledge, skills based training
• Comparator	Treatment as usual
• Types of participants	Healthcare professionals
• Critical outcomes	Staff attitudes, staff knowledge, service users' satisfaction, and service users' engagement with services
• Important, but not critical outcomes	N/A
• Other outcomes	N/A
• Study design	RCTs preferably
• Include unpublished data?	Will be discussed if there are relevant materials
• Restriction by date?	No
• Dosage	N/A
• Minimum sample size	N/A
• Study setting	N/A
Search strategy	Databases: CINAHL, EMBASE, MEDLINE, PSYCINFO, HMIC, PsycEXTRA, PsycBOOKS
Searching other resources	Keith Hawton's review on staff attitudes
Existing reviews	
• Updated	N/A
• Not updated	N/A
General search filter used	See search strategy in Appendix
Question specific search filter	See search strategy in Appendix

CONSULTATION DRAFT

Amendments to filter/ search strategy	See search strategy in Appendix
The review strategy	N/A
Additional assessments	N/A

1

1 **APPENDIX 9: SEARCH STRATEGIES FOR THE**
2 **IDENTIFICATION OF CLINICAL STUDIES**

3 **Search strategies**

4

5 The search strategies should be referred to in conjunction with information set
6 out in Section 3.5. Each search was constructed using the groups of terms as
7 set out in Box 1. The full set of terms for each search in Medline are
8 documented below.

1

Box 1: Summary of systematic search strategies

Chapter: Experience of care				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Experience of care	Update (Taylor <i>et al.</i> , 2009)	[(Self-harm terms) AND (Experience of care terms) AND (Qualitative/survey lit terms)]	Qualitative studies, quantitative studies [survey literature]	CINAHL, EMBASE, MEDLINE, PsycINFO, HMIC, IBSS, PsycBOOKS, PsycEXTRA [01.01.2006 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
* <i>Generic search for systematic reviews conducted for evidence relating to all clinical questions</i>				
Chapter: Training				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Staff training	New	[(Self-harm terms) AND (Staff training terms) AND (RCT filter)]	Randomised controlled trials	CINAHL, EMBASE, MEDLINE, PsycINFO, CENTRAL [Inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
* <i>Generic search for systematic reviews conducted for evidence relating to all clinical questions</i>				
Chapter: Psychosocial assessment				

CONSULTATION DRAFT

Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Risk and protective factors	New	[(Self-harm terms) AND (Risk and protective factor terms) AND (Observational filter)]	Observational studies	CINAHL, EMBASE, MEDLINE, PsycINFO [Inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
Formal risk assessment, needs assessment and psychosocial assessment	New	[(Self-harm terms) AND (Risk assessment, needs assessment, psychosocial assessment terms) AND (Observational filter)]	Observational studies	CINAHL, EMBASE, MEDLINE, PsycINFO [Inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
* <i>Generic search for systematic reviews conducted for evidence relating to all clinical questions</i>				
Chapter: Psychosocial interventions				

CONSULTATION DRAFT

Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Self management and/or harm reduction strategies	New	[(Self-harm terms) and (Self management and/or harm reduction strategy terms)]	Pieced [most relevant terms, all studies; less relevant terms, randomised controlled trials and observational studies]	CINAHL, EMBASE, MEDLINE, PsycINFO [Inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
Psychosocial interventions	Update, generic (Hawton <i>et al.</i> , 2011)	[(Self-harm terms) and (RCT filter)]	Randomised controlled trials	Embase; Medline; CINAHL; PsycINFO; CENTRAL.[01.01.2010 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
* Generic search for systematic reviews conducted for evidence relating to all clinical questions				
Chapter: Pharmacological interventions				

CONSULTATION DRAFT

Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Pharmacological interventions	Update, generic(Hawton <i>et al.</i> , 2011)	[(Self harm terms) AND (RCT filter)]	Randomised controlled trials	Embase; Medline; CINAHL; PsycINFO; CENTRAL [01.01.2010 up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
Safer prescribing	New	[(Self harm terms) AND (Safer prescribing terms) AND (OS filter)]	Observational studies	Embase; Medline; CINAHL; PsycINFO. [Inception of databases up to 25 January 2011]
		*[(Self-harm terms) AND (SR filter)]	Systematic reviews	CINAHL, EMBASE, MEDLINE, PsycINFO, CDSR, DARE [01.01.1995 up to 25 January 2011]
* Generic search for systematic reviews conducted for evidence relating to all clinical questions				

1 **Population Search terms**

2

3 *a) Self harm - population search terms*

4

5 Medline – Ovid SP interface

6

- 7 1. overdose/ or self-injurious behavior/ or self mutilation/ or suicidal
8 ideation/ or suicide/ or suicide, attempted/
9 2. (autoaggress\$ or auto aggress\$ or automutilat\$ or auto mutilat\$ or
10 cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or self destruct\$
11 or selfharm\$ or self harm\$ or selfimmolat\$ or self immolat\$ or
12 selfinflict\$ or self inflict\$ or selfinjur\$ or self injur\$ or selfmutilat\$ or
13 self mutilat\$ or selfpoison\$ or self poison\$ or suicid\$).ti,ab.
14 3. or/1-2

15

16

17 **Question specific search strategies**

18

19 *a) Experience of care [search update]*

20

21 *i) For people who self-harm, what are their experiences of having self-harmed, of*
22 *access to services and of treatment?; ii) For families and carers of people who self-*
23 *harm, what are their experiences of caring for people with self-harm and what support*
24 *is available for families and carers?; iii) For health care professional who work with*
25 *people who self-harm, what are their experiences of working with people who self-*
26 *harm and what training needs are specified by this group?*

27

28 Medline – Ovid SP interface

29

- 30 1. anthropology, cultural/ or ethnology/ or focus groups/ or life change
31 events/ or nursing methodology research/ or observation/ or
32 qualitative research/
33 2. (constant comp\$ or ((content or discourse) adj analysis) or emic or
34 ethnograph\$ or ethnon\$ or etic or focus group\$ or grounded theory or
35 group interview\$ or inside\$ perspective\$ or ((live or lived) adj
36 experience) or ((narrative or thematic) adj analysis) or participant
37 obser\$ or phenomolog\$ or (qualitative adj (approach or analysis or
38 method\$ or research or stud\$)) or semi-structured or social
39 constructi\$).ti,ab.
40 3. ((client\$ or consumer\$ or inpatient\$ or patient or user) adj
41 experience\$).ti,ab.
42 4. or/1-3
43 5. exp *health surveys/ or *health care surveys/
44 6. (survey\$ or question\$).ti,ab.
45 7. or/5-6
46 8. *attitude to health/ or *attitude/ or exp patient attitude/
47 9. (experien\$ or attitude\$).ti,ab.

CONSULTATION DRAFT

- 1 10. or/8-9
2 11. 4 or (7 and 10)
3

4 **b) Staff training**

5
6 Medline - Ovid SP interface
7

8 *Does the provision of staff training (knowledge, skills based) improve outcomes (eg.*
9 *Staff attitudes, user satisfaction, user engagement with services)?*

- 10 1. educational, premedical/ or exp education, professional/ or faculty/
11 or faculty, medical/ or faculty, nursing/ or exp inservice training/ or
12 exp professional competence/ or exp schools, health occupations/
13 2. accreditation/ or certification/ or competency based education/ or
14 credentialing/ or exp curriculum/ or education/ or knowledge/ or
15 learning/ or mentors/ or teaching/ or ed.fs.
16 3. (competen\$ or course\$1 or cpd\$1 or curricul\$ or educat\$ or information
17 or instruct\$ or knowledge or learn\$ or module\$ or posttrain\$ or
18 pretrain\$ or ((clinical or professional) adj2 (develop\$ or improv\$ or
19 practice)) or skill\$ or teach\$ or train\$ or workshop\$ or work
20 shop\$.ti,ab.
21 4. "attitude of health personnel" / or exp health personnel/ or exp
22 professional role/ or specialization/ or exp medicine/ or exp nursing/
23 or exp pharmacy/ or exp psychology/ or exp physicians/ or exp
24 psychiatry/
25 5. (analyst\$ or clinician\$ or consultant\$1 or counsel?or\$ or cpe or doctor\$
26 or employee or gp\$1 or health visitor\$ or medical expert\$ or nurs\$ or
27 personnel or pharmacist\$ or physician\$ or practitioner\$ or
28 professional\$ or psychiatrist\$ or psychoanalyst\$ or psychologist\$ or
29 psychotherapist\$ or specialist\$ or staff\$ or therapist\$ or
30 worker\$1).ti,ab.
31 6. (or/2-3 and or/4-5)
32 7. exp health personnel/ed
33 8. or/1,6,7
34
35

36 **c) Risk and protective factors**

37
38 Medline - Ovid SP interface
39

40 *What are the risk and protective factors (internal and external) amongst people who*
41 *self harm that predict outcomes?*

- 42
43 1. risk factors/
44 2. (risk\$ adj2 relative).ti,ab.
45 3. ((predict\$ or protect\$ or risk\$) adj2 (associat\$ or attribute\$ or correlate\$
46 or determinant\$ or factor\$ or variable\$)).ti,ab.
47 4. or/1-3

- 1 5. ((predict\$ or risk\$) adj2 (ongoing or recur\$ or re cur\$ or reattempt\$ or
2 re attempt\$ or recur\$ or repeat\$ or repetit\$)).ti,ab.
- 3 6. prospective repetit\$.ti,ab.
- 4 7. ((associat\$ or attribute\$ or correlate\$ or determinant\$ or factor\$ or
5 variable\$) adj8 (ongoing or recur\$ or re cur\$ or reattempt\$ or re
6 attempt\$ or recur\$ or repeat\$ or repetit\$) adj8 (autoaggress\$ or
7 aggress\$ or automutilat\$ or cutt\$ or destruct\$ or dsh or episode\$ or
8 harm\$ or immolat\$ or inflict\$ or injur\$ or mutilat\$ or overdose\$ or (self
9 adj2 cut\$) or poison\$ or selfdestruct\$ or selfharm\$ or selfimmolat\$ or
10 selfinflict\$ or selfinjur\$ or selfmutilat\$ or selfpoison\$ or sh or
11 suicid\$)).ti,ab.
- 12 8. or/5-7
- 13 9. resilience, psychological/
- 14 10. (buffer\$ or cope\$ or recovery or resilien\$).ti,ab.
- 15 11. or/9-10
- 16 12. or/4,8,11

17
18
19 **d) Formal risk assessment, needs assessment and psychosocial assessment**

20
21 Medline - Ovid SP interface

22
23 *For people who self-harm, does formal risk assessment, needs assessment and*
24 *psychosocial assessment improve outcomes?*

- 25 1. (checklist/ or geriatric assessment/ or interview/ or interview,
26 psychological/ or mass screening/ or nursing assessment/ or
27 "outcome and process assessment (health care)"/ or "outcome
28 assessment (health care)"/ or exp personality assessment/ or exp
29 psychiatric status rating scales/ or exp psychological tests/ or
30 questionnaires/)
- 31 2. (form\$1 or checklist\$ or check list\$ or index\$ or indices or interview\$
32 or instrument\$ or inventor\$ or item\$1 or measure\$ or psychometric\$ or
33 psycho metric\$ or question\$ or scale\$ or score\$ or scoring or self
34 report\$ or subscale\$ or test\$ or tool\$).ti,ab.
- 35 3. 1 or 2
- 36 4. "predictive value of tests"/ or recurrence/ or risk\$.hw.
- 37 5. (predict\$ or ongoing or recur\$ or re cur\$ or reattempt\$ or re attempt\$
38 or recur\$ or repeat\$ or repetit\$ or risk\$).ti,ab.
- 39 6. 4 or 5
- 40 7. area under curve/ or exp sensitivity and specificity/
- 41 8. ((area under adj2 curve) or auc or (diagnostic adj2 odds ratio\$) or
42 ((false or true) adj negative) or ((false or true) adj positive) or
43 (likelihood adj3 ratio\$) or ((pretest or pre test or posttest or post test)
44 adj2 probabilit\$) or (predict\$ adj3 value\$) or receiver operating
45 characteristic or (roc adj2 (analy\$ or curv\$ or plot\$)) or sensitiv\$ or
46 specificit\$).tw.

- 1 9. 7 or 8
- 2 10. and/3,6,9
- 3 11. needs assessment/ or risk assessment/
- 4 12. ((client\$ or clinical\$ or consumer\$ or need\$ or patient\$ or psychiatric or
- 5 psychological or psychosocial or psycho social or risk or service user\$
- 6 or therapeutic) adj2 (assess\$ or evaluat\$)).ti,ab.
- 7 13. (((assess\$ or predict\$ or risk\$) adj2 (form\$1 or checklist\$ or check list\$
- 8 or index\$ or indices or interview\$ or instrument\$ or inventor\$ or
- 9 item\$1 or measure\$ or psychometric\$ or question\$ or scale\$ or score\$
- 10 or scoring or self report\$ or subscale\$ or test\$ or tool\$)) or
- 11 (comprehensive adj (assessment\$ or evaluation\$))).ti,ab.
- 12 14. (adult suicidal ideation questionnaire or asiq or (beck depression
- 13 inventory or bdi) or (beck hopelessness scale or bhs) or ((beck scale
- 14 adj2 suicide ideation) or bsi) or ((brief reasons adj2 living inventory) or
- 15 brfl) or (brief symptom inventory or bsi) or ((college student reasons
- 16 adj2 living inventory) or csrli or csr li) or ((edinburgh risk adj2
- 17 repetition scale) or errs) or (firestone assessment adj2 self-destructive
- 18 thoughts) or ((global clinical assessment) or gca) or ((hamilton
- 19 depression rating scale) or hdrs) or ((hamilton rating scale adj2
- 20 depression) or hamd or ham d or hrsd or hrs d) or ((intersept scale adj2
- 21 suicidal thinking) or isst) or lethality scale\$ or (life satisfaction scale or
- 22 ls scale) or lifetime parasuicide count or ((linehan reasons adj2 living
- 23 inventory) or lrfl) or ((manchester self harm rule) or mshr) or
- 24 ((modified scale adj2 suicide ideation) or mssi) or (parasuicide history
- 25 interview or phi) or ((quiz adj2 depression adj2 suicide adj2 later life)
- 26 or qdssl) or (reasons adj2 living inventory) or ((reasons adj2 living scale
- 27 adj2 older adult questionnaire) or rfloa or rfl oa) or ((reasons adj2 living
- 28 scale adj2 younger adult questionnaire) or rflya or rfl ya) or risk rescue
- 29 rating or ((scale adj2 suicide ideation) or ssi) or (self-inflicted injury
- 30 severity form or siisf or sii sf) or (self-monitoring suicide ideation scale
- 31 or smsis of sms is) or (suicidal behaviors interview or sbi) or (suicidal
- 32 ideation questionnaire or siq) or (suicidal ideation screening
- 33 questionnaire or sisq or sis q) or (suicidal intent scale or sis) or ((suicide
- 34 assessment scale) or suas) or (suicide behaviors questionnaire or sbq)
- 35 or (suicide intervention response inventory or siri) or (suicide opinion
- 36 questionnaire or soq) or (suicide potential rating scale or suicide
- 37 lethality scale or spls or spl s) or (suicide probability scale or sps) or
- 38 (suicide status form or ssf) or ((symptom driven diagnostic system adj2
- 39 primary care) or sddspc or sdds pc) or ((positive adj2 negative suicide
- 40 ideation inventory) or pansi)).ti,ab.
- 41 15. or/11-14
- 42 16. or/10,15
- 43
- 44
- 45 e) *Self management and/or harm minimisation*
- 46

CONSULTATION DRAFT

1 Medline - Ovid SP interface

2

3 *For people who self-harm, does the provision of self management and/or harm*
4 *minimisation strategies, compared with no treatment or treatment as usual, improve*
5 *outcomes?*

6

7 1. self care/

8 2. ((self adj (care or instruct\$ or manag\$ or monitor\$ or regulat\$ or
9 reinforc\$ or re inforc\$)) or selfcare or selfinstruct\$ or selfmanag\$ or
10 selfmonitor\$ or selfregulat\$ or (minimal adj (contact or guidance)) or
11 (mutual adj (help or aid or support\$))).ti,ab.

12 3. harm reduction/ or risk management/ or risk reduction behavior/

13 4. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or
14 overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$
15 or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or
16 selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$
17 or suicid\$) adj2 (minimi\$ or reduc\$)).ti,ab.

18 5. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or
19 overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$
20 or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or
21 selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$
22 or suicid\$) adj4 (((decreas\$ or diminish\$ or fall\$ or fell or less\$ or limit\$
23 or low or lower\$) adj2 risk\$) or minimi\$ or reduc\$) adj8 (approach\$ or
24 communicat\$ or counsel\$ or educat\$ or instruct\$ or interven\$ or learn\$
25 or manag\$ or module\$ or network\$ or program\$ or psychoanaly\$ or
26 psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$ or taught or
27 teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or
28 work shop\$)).ti,ab.

29 6. ((advice\$ or advis\$ or deal\$ or instruct\$ or educat\$ or learn\$ or taught
30 or teach\$) adj8 (injur\$ or scar\$ or wound\$)).ti,ab.

31 7. (((advice\$ or instruct\$ or educat\$ or learn\$ or taught\$ or teach\$) adj3
32 risk\$) or ((advice\$ or advis\$ or discuss\$ or educat\$ or learn\$ or
33 taught\$ or teach\$) adj8 risk\$ adj8 (autoaggress\$ or auto aggress\$ or
34 automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or
35 selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or
36 immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$
37 or mutilat\$ or selfpoison\$ or poison\$ or suicid\$))).ti,ab.

38 8. hotlines.sh.

39 9. (call in or callline\$ or call line\$ or help line\$ or helpline\$ or hotline\$ or
40 hot line\$ or phone in or phonein or (caller\$1 adj3 (interven\$ or
41 program\$ or therap\$ or treat\$)) or (talk\$ adj2 friend\$) or ((phone\$ or
42 telephone\$) adj2 support\$)).ti,ab.

43 10. relaxation/ or relaxation therapy/

44 11. (relaxation or ((autogen\$ or relax\$) adj5 (apply or applied or approach\$
45 or assist\$ or coach\$ or educat\$ or help\$ or imagery or instruct\$ or
46 interven\$ or learn\$ or manag\$ or modif\$ or program\$ or seminar\$ or

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- 1 strateg\$ or support\$ or teach\$ or technique\$ or therap\$ or train\$ or
2 treat\$ or workshop\$ or work shop\$)) or relaxed state or ((breath\$ or
3 movement or respirat\$ or relax\$) adj2 (exercis\$ or interven\$ or
4 physiotherap\$ or technique\$ or therap\$ or train\$)) or ((control?ed or
5 deep) adj breathing)).ti,ab.
- 6 12. ((replacement\$ or substitut\$) adj3 (approach\$ or educat\$ or instruct\$ or
7 interven\$ or learn\$ or manag\$ or network\$ or program\$ or promot\$ or
8 rehab\$ or strateg\$ or taught or teach\$ or technique\$ or therap\$ or
9 train\$ or treat\$ or workshop\$ or work shop\$)).ti,ab.
- 10 13. (gigg1\$ or humo?r or laugh or laughter).ti,ab.
- 11 14. ((positive\$ adj2 (emotion\$ or therap\$ or think\$ or psycho\$)) or
12 (emotion\$ adj2 (cope or coping or psychotherap\$ or therap\$))).ti,ab.
- 13 15. (damag\$ adj2 limit\$).ti,ab.
- 14 16. (manag\$ risk\$ or (positive\$ adj2 risk\$ adj2 tak\$) or (relation\$ adj2
15 secur\$)).ti,ab.
- 16 17. (comforts or distractions or (((divert adj2 attention) or distract\$) adj5
17 (automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or
18 selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or
19 immolat\$ or selfinflict\$ or inflict\$ or selfinjur\$ or injur\$ or selfmutilat\$
20 or mutilat\$ or selfpoison\$ or poison\$ or suicid\$))).ti,ab.
- 21 18. (ice or icecube\$ or marker pen\$ or pillow\$1 or pinch or pinching or
22 ((elastic or rubber) adj band\$) or toothbrush\$ or tooth brush\$ or (tak\$
23 adj2 (bath\$ or shower\$)) or ((clean or sterile) adj2 (cutt\$ or
24 instrument))).ti,ab.
- 25 19. (goal\$ adj2 set\$).ti,ab.
- 26 20. (diary or diaries).ti,ab.
- 27 21. therapeutic contract.ti,ab.
- 28 22. ((cope\$ or coping) adj3 (approach\$ or assist\$ or coach\$ or educat\$ or
29 help\$ or imagery or instruct\$ or interven\$ or learn\$ or manag\$ or
30 modif\$ or program\$ or seminar\$ or strateg\$ or support\$ or teach\$ or
31 technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work
32 shop\$)).ti,ab.
- 33 23. (risk\$ adj2 (minimi\$ or reduc\$)).ti,ab.
- 34 24. creativeness/ or exercise/ or exp recreation/
- 35 25. (active living or bicycling or (cycling not rapid cycling) or gardening or
36 ((a?robic\$ or physical\$) adj (activit\$ or agil\$ or educat\$ or fitness\$)) or
37 hobby or hobbies or kinesiotherap\$ or kinesitherap\$ or recreation\$ or
38 running or sport\$ or swimming or tidying or walking or yoga).ti,ab.
- 39 26. community networks/ or friends/ or group processes/ or peer group/
40 or self help groups/
- 41 27. ((support\$ adj (based or cent\$ or focus?ed)) or (support\$ adj2
42 (approach\$ or educat\$ or friend\$ or family or instruct\$ or interven\$ or
43 learn\$ or module\$ or network\$ or peer\$1 or program\$ or strateg\$ or
44 technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$))
45 or ((community or emotion\$ or network\$ or organi?ation\$ or peer\$)

- 1 adj2 support\$) or (network\$ adj2 (discuss\$ or exchange\$ or interact\$ or
2 meeting\$)).ti,ab.
3 28. exp consumer health information/ or "patient education as topic"/
4 29. ((health adj2 (educat\$ or informat\$ or promot\$)) or ((adult\$ or client\$
5 or consumer\$ or inpatient\$ or outpatient\$ or participant\$ or patient\$ or
6 people or user\$) adj4 (educat\$ or knowledge or information\$ or
7 promot\$))).ti,ab.
8 30. or/1-5
9 31. or/6-29 [ANDed with RCT and OS filter]
10 32. or/30,31

11
12
13 **f) Psychosocial interventions [search update]**

14
15 *For people who self-harm, do psychosocial interventions (compared with no treatment*
16 *or other interventions) improve outcomes? What are the associated adverse effects?*
17

18 [Generic search - self harm terms ANDed with RCT filter]
19
20

21 **g) Pharmacological interventions [search update]**

22
23 *For people who self-harm, do drug treatments improve outcomes? What are the*
24 *associated adverse effects?*
25

26 [Generic search - self harm terms ANDed with RCT filter]
27
28

29 **h) Safer prescribing**

30
31 Medline - Ovid SP interface
32

33 *For people who self-harm, what are the key principles underlying safer prescribing?*

- 34 1. exp analgesics/ or exp salicylic acids/ or (ana?lges\$ or salicyl\$).ti,ab.
35 2. (acetylsalicylic acid or 2 acetoxybenzoate or acenterine or acesal or
36 acetan or acetard or aceticyl or acetilum or acetonyl or acetophen or
37 acetosal or acetosalicylic acid or acetosalin or acetosalum or acetyl
38 salicylate or acetyl salicylic acid or acetylic salicylic acid or acetylin or
39 acetylo or acetylon or acetylosalicylic acid or acetylsal or
40 acetylsalicyclic acid or acetylsalicyl or acetylsalicylate or
41 acetylsalicylate strontium or acetylsalicylic acid or acetylsalycic acid or
42 acetylsalyclic acid or acetysal or acidulatum or acidum acetyl
43 salicylicum or acidum acetylosalicylicum or acidum acetylsalicylicum
44 or acylpyrin or acylpyrine or acytosal or adiro or alabukun or alasil or
45 alka seltzer or alkaspirin or aloxiprimum or anopyrin or arthralgyl or
46 asaflow or asaphen or aspergum or aspirgran or aspirin or aspirina or

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- 1 aspirine or aspirinine or aspisol or aspro or asrivo or asteric or astrix or
- 2 bebesan or biprin or boxazin or breoprin or bufferin or cafenol or
- 3 catalgine or catalgix or cemerit or cemirit or claradin or claragine or
- 4 colfarit or colfarit or contrheuma or contrheuma retard or daga or
- 5 darosal or depot aspirin or dispirin or dispril or dolean or easprin or
- 6 ecotrin or egalgic or emocin or empirin or encaprin or endosprin or
- 7 endosprin or entericin or enterosarine or enterospirine or entrophen or
- 8 euthermine or extren or genasprin or godamed or gotosan or helicon or
- 9 infatabs a or istopirin or istopyrine or ivepirine or juvepirine or kilios
- 10 or kinderaspirin or magnecyl or measurin or mejoral or micristin or
- 11 micristin or micropyryn or mikristin or miniasal or mycristin or nu seal
- 12 or nuseals or ortho acetoxybenzoate or ortho acetoxybenzoic acid or
- 13 ortho acetyloxybenzoate or ortho acetyloxybenzoic acid or ostoprin or
- 14 pancemol or para acetylsalicylic acid or paracin or paynocil or pengo
- 15 or polopirin or polopiryna or polopiryna or premaspin or primaspan
- 16 or pyronoval or reumyl or rhodine or rhonal or salacetin or salacetogen
- 17 or saletin or sargepirine or slow release aspirin or sodium
- 18 acetylsalicylate or sodium bicarbonate acetyl salicylate or sodium
- 19 bicarbonate acetylsalicylate or soldral or solprin or solpyron or
- 20 solucetyl or solupsa or solupsan or super tru or tapal or temagin or
- 21 treupahlin or treuphalin or turivital or verin or vitalink or xaxa or
- 22 zorprin).ti,ab.
- 23 3. alfentanil/or (alfentanil or alfenta or alfentanil or alfentanil
- 24 hydrochloride or alfentanyl or alfentanyl or fanaxal or limifen or
- 25 rapifen).ti,ab.
- 26 4. (almotriptan or almogran or almotriptan malate or axert).ti,ab.
- 27 5. (buprenorphin\$ or buprenex or buprex or finibron or lepetan or prefin
- 28 or suboxone or subutex or temgesic or transtec).ti,ab.
- 29 6. caffeine/or caffeine\$.ti,ab.
- 30 7. cannabis/or (cannabis or cannabi or cannabis or ganja or ganjas or
- 31 hemp or hems or marihuana or marihuanas or marijuana or
- 32 marijuanas or opiate).ti,ab.
- 33 8. (cocodamol or acetaminophen plus codeine phosphate or empracet or
- 34 hypertussin or lindilane or nedolon or panadeine or paracodal or
- 35 percogesic with codeine or talvosilen or treuphadol plus).ti,ab.
- 36 9. (codeine phosphate or ardinex or codein phosphate or codeine or
- 37 codeine phosphate or codicomprent retard or colrex compound or
- 38 galcodeine or isocodeine or kodein or n methylmorphine or tricodein or
- 39 tussispect).ti,ab.
- 40 10. (codydramol or codidramol).ti,ab.
- 41 11. cyclizine/or (cyclizine or collox or cyclizine or marazine or marezine or
- 42 marzine or neo devomit or valoid).ti,ab.
- 43 12. dextromoramide/or (dextromoramide or d moramide or dextro
- 44 moramide or dextromoramide or dextromoramine or dimorlin or d-
- 45 moramide or jetrium or moramide or palfium or palfium or palphium
- 46 or pyrrolamidol or pyrrolamidole or pyrroloamidol).ti,ab.

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- 1 13. dextropropoxyphene/ or (co proxamol or coproxamol or cosalgesic or d
2 propoxyphene or darvon or dextropropoxyphene or dantalvic or
3 distalgesic or d-propoxyphene or dystalgesic or paradex or
4 propoxyphene).ti,ab.
- 5 14. (dihydrocodeine or cis dihydrocodeine or codhydrin or codhydrine or
6 codicontin or cohydrin or dehadodin or dh codeine or didrate or
7 dihydrin or dihydroneopine or drocode or hydrocodeine or
8 hydrocodin or nadein or nadeine or napacodin or novicodin or
9 paracodein or paracodin or paramol or parzone or rapacodin or
10 remedacen or tiamon mono or trans dihydrocodeine).ti,ab.
- 11 15. (dipipanone or pipadone or piperidyl amidone).ti,ab.
- 12 16. eletriptan.ti,ab.
- 13 17. ergotamine/ or (ergate or ergomar or ergostat or ergotamine tartrate or
14 ergotaminetartras or exmigra or femergin or gynergen or lingraine or
15 medihaler ergotamine or relpax or virdex or wigrettes).ti,ab.
- 16 18. fentanyl/ or (fentanyl\$ or duragesic or duragesic or durogesic or
17 fentamyl or fentanest or fentanil or fentora or fetnanyl or ionsys or
18 leptanal or phentanyl or sublimaze or transfenta).ti,ab.
- 19 19. (frovatriptan allegro or frova or migard or miguard).ti,ab.
- 20 20. (heroin\$1 or acetomorphine or diacephine or diacetyl morphine or
21 diacetylmorphine or diagesil or diamorf or diamorphine or diaphorin
22 or morphacetin).ti,ab.
- 23 21. (hydromorphone or biomorphyl or cofalaudid or dihydromorphinone
24 or dihydromorphone or dilaudid or dimorphone or hydromorphinone
25 hydrochloride hydromorphon or hydromorphone or hymorphan or
26 laudacon or laudaconum or novolaudon or palladon or palladone or
27 palladone or semcox or sophidone).ti,ab.
- 28 22. isometheptene mucate.ti,ab.
- 29 23. ketorolac\$.sh. or (droal or isometheptenemucate or isometheptine
30 mucate or ketocol or ketorolac or midrin or taradyl or toradol or
31 toratex).ti,ab.
- 32 24. meptazinol/ or (meptazinol or meptazinol or meptid).ti,ab.
- 33 25. exp methadone/ or (methadone\$ or adanon or adanon hydrochloride
34 or algidon or algolysin or algoxale or althose or amidon or amidone or
35 amidosan or anadon or biodone or butalgin or deamin or deperidol or
36 daminon or dianone or dolafin or dolamid or dolesone or dolophine
37 or dolophine hydrochloride or dorex or dorexol or fenadon or
38 heptadon or heptanon or ketalgin or mecodin or mepecton or
39 mephenon or metadol or metasedin or methaddict or methadose or
40 methex or miadone or moheptan or phenadon\$1 or phymet or
41 physepton or physeptone or pinadone or polamidon or polamivet or
42 polamivit or sinalgin or symoron).ti,ab.
- 43 26. methysergide/ or (methysergide\$ or deseril or desernil sandoz or desril
44 or dimethylergometrin or dimethylergometrine or dimethylergonovine
45 or methisergid or methisergide or methyl sergide or

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- 1 methylmethylegonovine or methylsergide or methysergid or
2 methysergide or sansert).ti,ab.
- 3 27. exp morphine/ or morphinans/ or (morphine or astramorph or avinza
4 or depodur or depomorphine or dolcontin or duramorph or
5 duramorple or kadian or kapanol or moraxen or morphia or
6 morphinesulfate or moscontin or ms contin or mst continus or mst
7 mundipharma or noceptin or oblioser or oramorph or roxanol or
8 sevredol or skenan lp).ti,ab.
- 9 28. exp naloxone/ or (naloxone or maloxone or nalaxone or nalone or
10 nalonee or narcan or narcanti or narcon or narvcam).ti,ab.
- 11 29. (naratriptan or amerge or naramig).ti,ab.
- 12 30. nefopam/ or (nefopam or acupan or ajan or fenazoxine or lenipan or
13 nocipan).ti,ab.
- 14 31. opiate alkaloids/ or opium/ or (opiate\$ or opioid\$ or opium).ti,ab.
- 15 32. (oxycodone or bionine or bionone or bolodorm or broncodal or
16 bucodal or cafacodal or cardanon or codenon or
17 dihydrohydroxydodeinone or dihydronone or dinarkon or endone or
18 eubine or eucodal or eucodale or eudin or eukdin or eukodal or
19 eumorphal or eurodamine or eutagen or hydrocodal or
20 hydroxycodone or hydroxycodone or ludonal or medicodal or
21 narcobasina or narcobasine or narcosin or nargenol or narodal or
22 nucodan or opton or ossicodone or oxanest or oxicone or oxiconum or
23 oxikon or oxycodone or oxycodonehydrochloride or oxycodone or
24 oxycodonehydrochlorid or oxycodone or oxycone or oxycontin or
25 oxygesic or oxykon or oxynorm or pancodine or pavinal or pronarcin
26 or remoxy or roxicodone or roxicodone or sinthiodal or stupenal or
27 tebodal or tekodin or thecodin or thecodin).ti,ab.
- 28 33. acetaminophen/ or (paracetamol or acetaminophen or acamol or
29 acephen or acetaco or acetamidophenol or acetaminophen or
30 algotropyl or anacin 3 or anacin3 or apap or datril or
31 hydroxyacetanilide or p-acetamidophenol or panadol or tylenol).ti,ab.
- 32 34. pentazocine/ or (pentazocine or dolapent or fortal or fortalgescic or
33 fortal or fortaline or fortwin or lexir or liticon or peltazon or
34 pentacozine or pentafen or pentagin or pentalgina or pentazocin or
35 pentozocine or perutagin or sosegon or sosigon or talioin or
36 talwin).ti,ab.
- 37 35. exp meperidine/ or (pethidine or algil or alodan or centralgin or
38 centralgine or demerol or dispadol or dolanquifa or dolantal or
39 dolantin or dolantine or dolargan or dolcontral or dolenal or dolestin
40 or dolin or dolocontral or doloneurin or doloneurotrat or dolor or
41 dolosa or dolosal or dolosan or dolsin or dolvanol or endolate or
42 isonipecaïn or isonipecaïne or l pethidine or lidol or lydol or mefedina
43 or mepadine or meperiden or meperidin or meperidine or mephedine or
44 mepiridine or mialgin or pantalgin or petadin or petantin or petantina
45 or pethanol or pethedine or pethidin or pethidine or petidin or

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- 1 phetidine or piridosal or sauteralgyl or simesalgina or supposal or
2 synlaudine).ti,ab.
- 3 36. (pizotifen or mosegor or sanmigran or sanomigran).ti,ab.
- 4 37. (rizatriptan or maxalt).ti,ab.
- 5 38. sumatriptan/ or (sumatriptan succinate or imigran or imiject or imitrex
6 or sumadol or sumigrene).ti,ab.
- 7 39. (tolfenamic acid or clotam or clotan or rocielyne or tolfedine or
8 tolfenamate).ti,ab.
- 9 40. tramadol/or (tramadol or adolonta or amadol or biodalgic or biokanol
10 or contramal or dolzam or jutadol or kontram xl or melanate or
11 mtwtramadol or nobligan or prontofort or ranitidin 1a pharma or
12 takadol or theradol or tiral or topalgic or tradol or tradolpuren or
13 tradonal or tralgiol or trama abz or trama dorsch or trama kd or
14 tramabeta or tramadin or tramadoc or tramadoldolgit or
15 tramadolhameln or tramadolium chloride or tramador or
16 tramadolratiopharm or tramadorsch or tramadura or tramagetic or
17 tramagit or tramake or tramal or tramex or tramundin or trasedal or
18 trodon or trondon or ultram or xymel 50 or zamudol or zumalgic or
19 zydol or zytram).ti,ab.
- 20 41. (zolmitriptan or ascotop or zomig or zomigon).ti,ab.
- 21 42. (zopiclone or amoban or imovance or imovane or ximovan or
22 zimovane or zoplicon).ti,ab.
- 23 43. or/1-42
- 24 44. exp benzodiazepines/ or (benzo\$1 or benzodiazepin\$).ti,ab.
- 25 45. (alprazolam or alprox or apo alpraz or apoalpraz or aprazolam\$1 or
26 cassadan\$1 or esparon\$1 or helex or kalma or novo alprazol\$1 or
27 novoalprazol\$1 or nu alpraz or nualpraz or ralozam or solanax or
28 tafil\$1 or frankimazin\$1 or valeans or xanax or xanor).ti,ab.
- 29 46. (bromazepam or anxyrex or bartul or bromalich or bromaz pharma or
30 bromazanyl\$1 or bromazep von ct or durazanyl\$ or lectopam\$1 or
31 lexamil\$1 or lexatin\$1 or lexaurin\$1 or lexilium or lexomil\$1 or
32 lexotan\$1 or lexotanil\$1 or lexotanil\$1 or normoc or sintrogel\$1).ti,ab.
- 33 47. (chlordiazepoxid\$1 or methaminodiazepoxid\$1 or elenium\$1 or
34 librium\$1 or chlozepid\$1 or ansiacal\$1 or benzodiapin\$1 or cebrum\$1
35 or chlordiazepoxyd\$1 or chlorodiazepoxid\$1 or clopoxid\$1 or contol\$1
36 or decacil\$1 or defobin\$1 or disarim\$1 or dizepin\$1 or dopoxid\$1 or
37 droxol\$1 or eden psych or elenium\$1 or elenum\$1 or equibral\$1 or
38 kalmocaps or labican\$1 or librelease or libritabs or librium or lipoxide
39 or mesural\$1 or metaminodiazepoxid\$1 or methaminodiazepoxid\$1 or
40 mildmen\$1 or mitran\$1 or multum\$1 or murcil\$1 or napoton\$1 or
41 napoton\$1 or novosed\$1 or psichial\$1 or psicosan\$1 or psicoterin\$1 or
42 radepur or reliberan\$1 or reposans or risolid or seren vita or servium
43 or silibrin\$1 or sk lygen or sonimen\$1 or timosin\$1 or viansin\$1 or
44 viopsicol\$1).ti,ab.
- 45 48. (clobazam or chlorepin\$1 or clobazepam or clorepin\$1 or frisium or
46 noiafren\$1 or urbadan\$1 or urbanil\$1 or urbanyl).ti,ab.

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- 1 49. (clonazepam or antelepsin\$1 or clonopin\$1 or iktorivil\$1 or
2 klonazepam or klonopin\$1 or landsen\$1 or rivotril\$1).ti,ab.
- 3 50. (clorazepat\$1 or carboxylic acid or chlorazepat\$1 or chloroazepat\$1 or
4 clorazepic acid or tranxen\$1 or tranxilium).ti,ab.
- 5 51. (delorazepam or briantum\$1 or chlordermethyldiazepam or
6 chlordermethyldiazepam or chloro n demethyldiazepam or
7 chlorodemethyldiazepam or chlorodesmethyldiazepam or
8 chloronordiazepam).ti,ab.
- 9 52. (diazepam or alupram or ansiolin\$1 or antenex or apaurin\$1 or
10 apaurin\$1 or apozepam or assival\$1 or audium\$1 or bialzepam or
11 bialzepan\$1 or calmpos\$1 or cercin\$1 or cersin\$1 or chlordiazeepam or
12 dialar or diastat or diazelium or diazemuls or diazidem or ducen\$1 or
13 duxen\$1 or eridan or eurosan\$1 or evacalm\$1 or fanstan\$1 or faustan\$1
14 or gewacalm\$1 or lamra or lembrol\$1 or lipodiazepam or lorinon\$1 or
15 methyldiazepinon\$1 or methyldiazepinon\$1 or morosan\$1 or
16 neocalm\$1 or neurolytril\$1 or noan or novazam or paceum or plidan or
17 psychopax or relanium or 1 rimapam or sedapam or seduxen\$1 or
18 serendin\$1 or setonil\$1 or sibazon\$1 or sonacon\$1 or stesolid\$1 or
19 stesolin\$1 or tanquo tablinen\$ or tensium or tranimul\$1 or tranquo
20 puren or umbrium\$1 or valaxon\$1 or valclair or valiquid\$1 or valium
21 or valpam or valreleas\$ or vatran\$1 or vival\$1 or vivol or
22 zetran\$1).ti,ab.
- 23 53. (flunitrazepam or flurazepam or fluridrazepam or darken\$1 or fluni 1a
24 pharma or flunibeta or flunimerck or fluninoc or flunipam or flunita or
25 flunitrax or flunizep von ct or hypnodorm\$1 or hypnosodon\$1 or
26 inervon\$1 or narcozep or parnox or rohipnol\$1 or rohypnol\$1 or
27 roipnol\$1 or silece or valsera).ti,ab.
- 28 54. (flurazepam or benozil\$1 or dalmadorm\$1 or dalman\$1 or dalmate or
29 dormodor\$1 or lunipax or staurodorm\$1 or dalman\$1 or dormodor\$1
30 or dalmadorm\$1).ti,ab.
- 31 55. (flutoprazepam or restas).ti,ab.
- 32 56. loprazolam.ti,ab.
- 33 57. (lorazepam or almazin\$1 or alzapam or apolorazepam or ativan or
34 bonatranquan\$1 or donix or duralozam or durazolam or idalprem or
35 kendol\$1 or laubeel or lorabenz or loranas\$1 or loranz\$1 or lorans or
36 lorax or lorazep von ct or loridem\$1 or lorivan\$1 or mesmerin\$1 or
37 novo lorazem\$1 or novolorazem\$1 or novo lorazem\$1 or nu loraz or
38 nuloraz or orfidal or orifadal\$1 or pro dorm or quait or securit or
39 sedicepan\$1 or sinestron\$1 or somagerol\$1 or tavor or temesta or tolid
40 or wypax).ti,ab.
- 41 58. (lormetazepam or loramet or (lorazepam adj2 methyl) or
42 methyllorazepam or minians or minias or noctamid\$1 or
43 pronoctan\$1).ti,ab.
- 44 59. (mexazolam or melex or sedoxil\$1).ti,ab.
- 45 60. (midazolam or dormicum or dormonid\$1 or hypnoval\$1 or
46 hypnovel\$1 or hypnoyvel\$1 or versed).ti,ab.

- 1 61. (nitrazepam or alodorm or atempol\$1 or benzalin\$1 or dormalon\$1 or
2 dormo puren or dumolid or eatan or eunoctin\$1 or hypnotex or
3 imadorm or imeson\$1 or insomin\$1 or mogadan\$1 or mogadon\$1 or
4 nelbon\$1 or nirven\$1 or nitra zepam or nitrados or nitravet or
5 nitrazadon\$1 or nitrazep or nitrodiazepam or novanox or pacisyn or
6 radedorm\$1 or remnos or restorem\$1 or sedamon\$1 or serenade or
7 somnased\$1 or somnibel\$1 n or somnit\$1).ti,ab.
- 8 62. (oxazepam or abboxapam or adumbran\$1 or alopam or anxiolit\$1 or
9 azutranquil\$1 or durazepam or expidet\$1 or hilog or isodin\$1 or
10 linbial\$1 or noctazepam or oxapuren\$1 or oxepam or praxiten\$1 or
11 serax or serenid\$1 or serepax or seresta or serpax or sigacalm\$1 or
12 sobril\$1 or tazepam\$1 or uskan).ti,ab.
- 13 63. (prazepam or centrax or demetrin\$1 or lysanxia or mono demetrin\$1 or
14 monodemetrin\$1 or reapam or sedapran\$1 or verstran).ti,ab.
- 15 64. (temazepam or apo temazepam or dasuen or euhypnos or
16 hydroxydiazepam or levaxol\$1 or methyloxazepam or nocturne\$1 or
17 norkotral tema or normison\$1 or normitab or nortem or oxydiazepam
18 or planum or pronervon t or remestan\$1 or restoril\$1 or signopam or
19 temaz\$1 or temazep von ct or temazepax or temtabs or tenox or
20 texapam).ti,ab.
- 21 65. or/44-64
- 22 66. exp antidepressive agents, tricyclic/ or (tca\$1 or tricyclic\$).ti,ab.
- 23 67. (amitriptyl\$1 or amitryptil\$1 or amitryptin\$1 or amitryptilin\$1 or
24 amytriptil\$1 or amytriptyl\$1 or amytryptil\$1 or adepress or adepril\$1
25 or ambivalon\$1 or amineurin\$1 or amitid\$1 or amitril\$1 or amitrip or
26 amitrol\$1 or anapsique or antitriptylin\$1 or apoamitriptylin\$1 or
27 damilen\$1 or damylen\$1 or domical\$1 or elatrol\$1 or elavil\$1 or endep
28 or enovil\$1 or etafon\$1 or etafron\$1 or euplit\$1 or lantron\$1 or
29 laroxal\$1 or laroxyl\$1 or lentizol\$1 or novoprotect or proheptadien\$1
30 or redomex or sarboten retard 75 or saroten\$1 or sarotex or stelminal\$1
31 or sylvemid\$1 or syneudon\$1 or teperin\$1 or terepin\$1 or triptafen\$1
32 or triptanol\$1 or triptizol\$1 or triptyl or triptylin\$1 or tryptanol\$1 or
33 tryptin\$1 or tryptizol\$1).ti,ab.
- 34 68. (chlomipramin\$1 or chlorimipramin\$1 or chloroimipramin\$1 or
35 clomipramin\$1 or anafranil\$1 or anafranilin\$1 or anafranil or
36 domipramin\$1 or hydiphen\$1 or monochlor imipramin\$1 or
37 monochlorimipramin\$1 or monochloroimipramin\$1).ti,ab.
- 38 69. (dothiepin\$1 or dosulepin\$1 or altapin\$1 or depresym\$1 or dopress or
39 dothep or idom or prothiaden\$1 or prothiadien\$1 or prothiadin\$1 or
40 protiaden\$1 or thaden).ti,ab.
- 41 70. (doxepin\$1 or adapin\$1 or apodoxepin\$1 or aponal\$1 or co dox or
42 curatin\$1 or deptran\$1 or desidox or doneurin\$1 or doxepia or espadox
43 or mareen or prudoxin\$1 or quitaxon\$1 or silenor or sinepin or
44 sinequan\$1 or sinquan\$1 or xepin\$1 or zonalon\$1).ti,ab.
- 45 71. (imipramin\$1 or antidepressin\$1 or berkomin\$1 or chrytemin\$1 or
46 deprimin or deprinol\$1 or depsonil or dynaprin or eupramin or ia

- 1 pram or imavate or imidobenzyl\$1 or imidol\$1 or imipramid\$1 or
 2 imipramil or imiprex or imiprin\$1 or imizin\$1 or irmin or janimin\$1 or
 3 melipramin\$1 or norchlorimipramin\$1 or norpramin\$1 or
 4 novopramin\$1 or presamin\$1 or pryleugan\$1 or psychoforin\$1 or
 5 psychoforin\$1 or servipramin\$1 or sk pramin\$1 or surplus or tofranil\$1
 6 or trofanil\$1).ti,ab.
- 7 72. (lofepramin\$1 or lopramin\$1 or amplit\$1 or deftan\$1 or feprapax or
 8 gamanil\$1 or gamonil\$1 or lomont or lopramin\$1 or tymelyt).ti,ab.
- 9 73. (mianserin\$1 or athymil\$1 or bolvidon\$1 or investig or lantanon\$1 or
 10 lanthanon\$1 or lerivon\$1 or miaxan\$1 or norval or serelan\$1 or
 11 tetramid\$1 or tolvin\$1 or tolvon\$1).ti,ab.
- 12 74. (nortriptylin\$1 or acetexa or allegron\$1 or altilev or atilev or avantyl or
 13 aventyl or desitriptylin\$1 or desmethyramidriptylin\$1 or martimil\$1 or
 14 noramitriptylin\$1 or norfenazin\$1 or noritren\$1 or norpress or
 15 nortrilen\$1 or nortryptilin\$1 or nortriptylin\$1 or pamelor or paxtibi or
 16 propylamin\$1 or psychostyl or sens?val).ti,ab.
- 17 75. opipramol/or (opipramol\$1 or dinsidon\$1 or ensidon\$1 or eusidon\$1
 18 or insidon\$1 or nisidan\$1 or oprimol or pramolans\$1).ti,ab.
- 19 76. (trazodon\$1 or beneficat or deprax or desirel or desyrel\$1 or
 20 molipaxin\$1 or pesyrel\$1 or rpragazon\$1 or pragmarel\$1 or
 21 pragmazon\$1 or thombran\$1 or thrombin\$1 or thrombran\$1 or
 22 tombran\$1 or trasodon\$1 or trazolan\$1 or trazorel or trazon\$1 or
 23 trialodine or tritico).ti,ab.
- 24 77. (trimepramin\$1 or trimeprimin\$1 or trimepropimin\$1 or trimidura or
 25 trimineurin\$1 maleate or trimipramin\$1 or trimoprimin\$1 or eldoral\$1
 26 or herphonal\$1 or trimineurin\$1 or novo tripramin\$1 or
 27 novotripramin\$1 or nutrimipramin\$1 or rhotrimin\$1 or stangyl or
 28 surmontil\$1 or apo trimip or apotrimip or herphonal\$1 or stangyl or
 29 surmontil\$1).ti,ab.
- 30 78. exp serotonin uptake inhibitors/ or (((serotonin or 5 ht or 5
 31 hydroxytryptamine) adj (uptake or reuptake or re uptake) adj inhibit\$)
 32 or ssri\$).ti,ab.
- 33 79. (citalopram or celexa or cipramil\$1 or cytalopram or elopram or
 34 escitalopram or lexapro or nitalapram or sepram or seropram).ti,ab.
- 35 80. (escitalopram or cipralex or lexapro or seroplex).ti,ab.
- 36 81. (fluoxetin\$1 or fluctin\$1 or flunirin\$1 or fluoxifar or prosac or prozac
 37 or prozamin or sarafem or symbyax).ti,ab.
- 38 82. (fluvoxamin\$1 or depromel\$1 or desiflu or dumirox or faverin\$1 or
 39 fevarin\$1 or floxyfral\$1 or fluoxamin\$1 or fluoxamin\$1 or fluvoxadura
 40 or luvox).ti,ab.
- 41 83. (nefazadon\$1 or dutonin or nefadar or reseril\$1 or serzon\$1).ti,ab.
- 42 84. (paroxetin\$1 or aropax or deroxat or motivan\$1 or paxil or pexeva or
 43 seroxat or tagonis).ti,ab.
- 44 85. (sertralin\$1 or altrulin\$1 or aremis or besitrans\$1 or gladem or lustral\$1
 45 or naphthylamin\$1 or sealdin\$1 or serad or serlain\$1 or tresleen or
 46 zoloff).ti,ab.

- 1 86. or/66-85
2 87. or/1-86
3 88. (ae or ct or po or to).fs.
4 89. exp abnormalities, drug induced/ or exp adverse drug reaction
5 reporting systems/ or exp death/ or exp drug hypersensitivity/ or exp
6 drug-induced liver injury / or drug interactions/ or exp intraoperative
7 complications/ or drug monitoring/ or exp drug tolerance/ or
8 overdose/ or exp poisoning/ or exp postoperative complications/ or
9 exp product surveillance, postmarketing/ or respiration depression/
10 or risk/ or risk assessment/ or risk factors/ or exp toxemia/
11 90. (causa\$ or ((adverse or negativ\$ or side or undesir\$ or unwanted) adj2
12 (effect\$ or event\$ or outcome\$ or reaction\$)) or death\$ or
13 discontinuation effect\$ or (caution\$ or complication\$ or contraindicat\$
14 or contra indicat\$ or harm\$ or hazard\$ or interaction\$1 or intolerab\$ or
15 lethal\$ or noxious\$ or overdos\$ or safety or safe or tolerab\$ or toxic\$ or
16 warning\$) or (treatment emergent or adrs)).ti,ab.
17 91. or/88-90
18 92. 87 and 91
19
20

21 **Search filters**

22
23 *a) Systematic review search filter - adapted from a filter designed by the*
24 *Health Information Research Unit of the McMaster University, Ontario.*

25
26 Medline - Ovid SP interface

- 27
28 1. meta-analysis/ or meta-analysis as topic/
29 2. meta-analysis.pt.
30 3. ((evidence or quantitative\$ or systematic\$) adj2 (overview or
31 review)).ti,ab.
32 4. (((bibliographic or electronic) adj database\$) or bids or cochrane or
33 embase or index medicus or isi citation or medline or psyclit or psychlit
34 or pubmed or scisearch or science citation or (web adj2 science)).ti,ab.
35 and review.pt.
36 5. (metaanal\$ or meta anal\$ or metasyntes\$ or meta syntes\$).ti,ab.
37 6. ((pool\$ or combined or combining) adj2 (data or trials or studies or
38 results)).ti,ab.
39 7. or/1-6

40
41 *b) RCT search filter - adapted from a filter designed by the Health*
42 *Information Research Unit of the McMaster University, Ontario.*

43
44 Medline - Ovid SP interface

CONSULTATION DRAFT

- 1 1. exp clinical trial/ or cross over studies/ or double blind method/ or
- 2 random allocation/ or randomized controlled trials as topic/ or single
- 3 blind method/
- 4 2. (clinical adj2 trial\$.ti,ab.
- 5 3. (crossover or cross over).ti,ab.
- 6 4. (((single\$ or doubl\$ or trebl\$ or tripl\$) adj2 blind\$) or mask\$ or dummy
- 7 or singleblind\$ or doubleblind\$ or trebleblind\$ or tripleblind\$.ti,ab.
- 8 5. (placebo\$ or random\$.mp.
- 9 6. (clinical trial\$ or controlled clinical trial\$ or random\$.pt.
- 10 7. animals/ not (humans/ or human\$.tw.)
- 11 8. (or/1-6) not 7

12

13 *c) Observational study filter – developed in house.*

14

15 Medline– Ovid SP interface

16

- 17 1. case-control studies/
- 18 2. cohort studies/
- 19 3. cross-sectional studies/
- 20 4. epidemiologic studies/
- 21 5. follow-up studies/
- 22 6. longitudinal studies/
- 23 7. prospective studies/
- 24 8. retrospective studies/
- 25 9. (cohort\$1 or cross section\$ or crosssection\$ or followup\$ or follow up\$
- 26 or followed or longitudinal\$ or prospective\$ or retrospective\$.ti,ab.
- 27 10. (case adj2 (control\$ or series)).ti,ab.
- 28 11. or/1-10

29

30 *Search terms for case control studies excluded from filter (where required) as specified*

31 *in the review protocols.*

32

1 **APPENDIX 10: CLINICAL STUDY DATA EXTRACTION**
2 **FORM**

3 Intervention studies

Methods

Allocation:

Follow-up period:

N lost to follow up:

Participants

Setting:

Inclusion criteria:

Numbers: N participants: N experimental, N control.

Profile: N% (n=) female. n% (n=) had diagnosis of X disorder.

Interventions

Source of participants:

Experimental:

Intervention:

Control:

Therapist:

Type of therapy offered:

Experimental:

Control:

Outcomes

Length of treatment:

Included: Outcome A, B, C etc.

Excluded:

Notes

4

5

1 **APPENDIX 11: QUALITY CHECKLISTS FOR CLINICAL**
 2 **STUDIES AND REVIEWS**

3 *Methodology checklist: randomised controlled trials*

Study identification Include author, title, reference, year of publication					
Guideline topic:		Review question no:			
Checklist completed by:					
		Circle one option for each question			
A. Selection bias (systematic differences between the comparison groups)					
A1	An appropriate method of randomisation was used to allocate participants to treatment groups (which would have balanced any confounding factors equally across groups)	Yes	No	Unclear	N/A
A2	There was adequate concealment of allocation (such that investigators, clinicians and participants cannot influence enrolment or treatment allocation)	Yes	No	Unclear	N/A
A3	The groups were comparable at baseline, including all major confounding and prognostic factors	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was selection bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					
B. Performance bias (systematic differences between groups in the care provided, apart from the intervention under investigation)					
B1	The comparison groups received the same care apart from the intervention(s) studied	Yes	No	Unclear	N/A
B2	Participants receiving care were kept 'blind' to treatment allocation	Yes	No	Unclear	N/A
B3	Individuals administering care were kept 'blind' to treatment allocation	Yes	No	Unclear	N/A

CONSULTATION DRAFT

Based on your answers to the above, in your opinion was performance bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/ unknown risk		High risk of bias	
Likely direction of effect:					
C. Attrition bias (systematic differences between the comparison groups with respect to loss of participants)					
C1	All groups were followed up for an equal length of time (or analysis was adjusted to allow for differences in length of follow-up)	Yes	No	Unclear	N/A
C2	a. How many participants did not complete treatment in each group?				
	b. The groups were comparable for treatment completion (that is, there were no important or systematic differences between groups in terms of those who did not complete treatment)	Yes	No	Unclear	N/A
C3	a. For how many participants in each group were no outcome data available?				
	b. The groups were comparable with respect to the availability of outcome data (that is, there were no important or systematic differences between groups in terms of those for whom outcome data were not available).	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was attrition bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/ unknown risk		High risk of bias	
Likely direction of effect:					
D. Detection bias (bias in how outcomes are ascertained, diagnosed or verified)					
D1	The study had an appropriate length of follow-up	Yes	No	Unclear	N/A
D2	The study used a precise definition of outcome	Yes	No	Unclear	N/A
D3	A valid and reliable method was used to determine the outcome	Yes	No	Unclear	N/A

CONSULTATION DRAFT

D4	Investigators were kept 'blind' to participants' exposure to the intervention	Yes	No	Unclear	N/A
D5	Investigators were kept 'blind' to other important confounding and prognostic factors	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was detection bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					

1

2 *Notes on use of Methodology checklist: randomised controlled trials*

3 The studies covered by this checklist are designed to answer questions about
 4 the relative effects of interventions such as drugs, psychological therapies,
 5 operations or placebos. Such studies can include comparisons of 'test and
 6 treat strategies' involving a diagnostic test and subsequent management. The
 7 checklist does not cover comparisons of diagnostic test accuracy or questions
 8 about prognosis.

9 This checklist replaces the methodology checklist for randomised controlled
 10 trials from 'The guidelines manual' 2007 (appendix C).

11 Some of the items on this checklist may need to be filled in individually for
 12 different outcomes reported by the study. It is therefore important that the
 13 systematic reviewer has a clear idea of what the important outcomes are
 14 **before** appraising a study. You are likely to need input from the Guideline
 15 Development Group in defining the important outcomes.

16 Checklist items are worded so that a 'yes' response always indicates that the
 17 study has been designed/conducted in such a way as to minimise the risk of
 18 bias for that item. An 'unclear' response to a question may arise when the
 19 item is not reported or not clearly reported. 'N/A' should be used when a
 20 randomised controlled trial cannot give an answer of 'yes' no matter how well
 21 it has been done.

22 This checklist is designed to assess the internal validity of the study; that is,
 23 whether the study provides an unbiased estimate of what it claims to show.
 24 Internal validity implies that the differences observed between groups of
 25 participants allocated to different interventions may (apart from the
 26 possibility of random error) be attributed to the intervention under
 27 investigation. Biases are characteristics that are likely to make estimates of
 28 effect differ systematically from the truth.

29 **Recording the presence and direction of bias**

1 The checklist contains four sections (A–D), each of which addresses a
2 potential source of bias relating to internal validity. At the end of each section
3 you are asked to give your opinion on whether bias is present and to estimate
4 the likely direction of this bias – that is, whether you think it will have
5 increased or decreased the effect size reported by the study. It will not always
6 be possible to determine the direction of bias, but thinking this through can
7 help greatly in interpreting results.

8 *A: Selection bias*

9 Selection bias may be introduced into a study when there are systematic
10 differences between the participants in the different treatment groups. As a
11 result, the differences in the outcome observed may be explained by pre-
12 existing differences between the groups rather than because of the treatment
13 itself. For example, if the people in one group are in poorer health, then they
14 are more likely to have a bad outcome than those in the other group,
15 regardless of the effect of the treatment. The treatment groups should be
16 similar at the start of the study – the only difference between the groups
17 should be the intervention received.

18 *Randomisation*

19 There are two aspects to randomisation:

- 20 • generation of the random allocation sequence that results in groups
21 that differ only randomly
- 22 • allocation concealment, so that both the participant and the
23 investigator are unaware of which group the next participant will be
24 allocated to when entering the study.

25 **A1. An appropriate method of randomisation was used to allocate**
26 **participants to treatment groups**

27 If an appropriate method of randomisation has been used, each participant
28 should have an equal chance of ending up in any of the treatment groups.
29 Examples of random allocation sequences include random numbers
30 generated by computer, tables of random numbers, and drawing of lots or
31 envelopes. The allocation sequence should not be related to outcome or
32 prognosis, or be predictable, such as date of birth or admission date.
33 There are some more complicated ways of allocating people to treatment
34 groups that minimise the differences between groups, such as block
35 randomisation and minimisation. Although these are not truly random, they
36 are usually considered to be adequate for the purpose. If a study does not
37 report the method of randomisation used, this should be scored as ‘unclear’.

38 **A2. There was adequate concealment of allocation**

39 If investigators are aware of the allocation group for the next participant being
40 enrolled in the study, there is potential for participants to be enrolled in an
41 order that results in imbalances in important characteristics. For example, a
42 clinician might feel that participants who are more unwell are likely to do

1 better on a new, experimental, treatment and be tempted to enrol such
2 participants when they know they will be allocated to that group. This would
3 result in the participants in the intervention group being, on average, more
4 unwell. Concealment of treatment group may not always be feasible (as in, for
5 example, a comparison of a surgical with a medical intervention), but
6 concealment of allocation up until the point of enrolment in the study should
7 always be possible.

8 The information presented within the paper should provide some assurance
9 that allocations were not known until at least the point of enrolment.

10 Centralised allocation, computerised allocation systems and the use of coded
11 identical containers are all regarded as adequate methods of concealment.

12 Sealed envelopes can be considered as adequate concealment if the envelopes
13 are serially numbered, sealed and opaque, and allocation is performed by a
14 third party. Poor methods of allocation concealment include alternation, or
15 the use of case record numbers, date of birth or day of the week.

16 If the method of allocation concealment used is regarded as poor, or relatively
17 easy to subvert, the study must be given a lower quality rating. If a study
18 does not report any concealment approach, this should be scored as 'unclear'.

19 **A3. The groups were comparable at baseline, including all major** 20 **confounding and prognostic factors**

21 Studies may report the distributions of potential prognostic and confounding
22 factors in the comparison groups, or important differences in the distribution
23 of these factors may be noted.

24 Formal tests comparing the groups are problematic – failure to detect a
25 difference does not mean that a difference does not exist, and multiple
26 comparisons of factors may falsely detect some differences that are not real.

27 Clinical input may be required to determine whether all likely confounders
28 have been considered. Confounding factors may differ according to outcome,
29 so you will need to consider potential confounding factors for all of the
30 outcomes that are of interest to your review.

31 *B: Performance bias*

32 Performance bias refers to systematic differences between the comparison
33 groups in the care provided to the participants, other than the intervention
34 under investigation.

35 This may consist of additional treatment, advice or counselling, rather than a
36 physical intervention, or even simply a belief about the effects of an
37 intervention. If performance bias is present, it can be difficult to attribute any
38 observed effect to the experimental treatment rather than to the other factors.

39 **B1. The comparison groups received the same care apart from the** 40 **intervention(s) studied**

41 There should be no differences between the treatment groups apart from the
42 intervention received. If some participants received additional treatment

1 (known as ‘co-intervention’), this treatment is a potential confounding factor
2 that may compromise the results.

3 *Blinding*

4 Blinding (also known as masking) refers to the process of withholding
5 information about treatment allocation or exposure status from those
6 involved in the study who could potentially be influenced by this
7 information. This can include participants, investigators, those administering
8 care and those involved in data collection and analysis. If people are aware of
9 the treatment allocation or exposure status (‘unblinded’), this can bias the
10 results of studies, either intentionally or unintentionally, through the use of
11 other effective co-interventions, decisions about withdrawal, differential
12 reporting of symptoms or influencing concordance with treatment. Blinding
13 of those assessing outcomes is covered in section D on detection bias.

14 Blinding of participants and carers is not always possible, particularly in
15 studies of non-drug interventions, and so performance bias may be a
16 particular issue in these studies. It is important to think about the likely size
17 and direction of bias caused by failure to blind.
18 The terms ‘single blind’, ‘double blind’ and even ‘triple blind’ are sometimes
19 used in studies. Unfortunately, they are not always used consistently.
20 Commonly, when a study is described as ‘single blind’, only the participants
21 are blind to their group allocation. When both participants and investigators
22 are blind to group allocation, the study is often described as ‘double blind’. It
23 is preferable to record exactly who was blinded, if reported, to avoid
24 misunderstanding.

25 **B2. Participants receiving care were kept ‘blind’ to treatment allocation**

26 The knowledge of assignment to a particular treatment group may affect
27 outcomes, such as a study participant’s reporting of symptoms, self-use of
28 other known interventions or even dropping out of the study.

29 **B3. Individuals administering care were kept ‘blind’ to treatment allocation**

30 If individuals who are administering the intervention and/or other care to the
31 participant are aware of treatment allocation, they may treat participants
32 receiving one treatment differently from those receiving the comparison
33 treatment; for example, by offering additional co-interventions.

34 *C: Attrition bias*

35 Attrition refers to the loss of participants during the course of a study.
36 Attrition bias occurs when there are systematic differences between the
37 comparison groups with respect to participants lost, or differences between
38 participants lost to the study and those who remain. Attrition can occur at any
39 point after participants have been allocated to their treatment groups. As
40 such, it includes participants who are excluded after allocation (and may
41 indicate a violation of eligibility criteria), those who do not complete
42 treatment (whether or not they continue measurement) and those who do not

1 complete outcome measurement (regardless of whether or not treatment was
2 completed). Consideration should be given to why participants dropped out,
3 as well as how many. Participants who dropped out of a study may differ in
4 some significant way from those who remained as part of the study
5 throughout. Drop-out rates and reasons for dropping out should be similar
6 across all treatment groups. The proportion of participants excluded after
7 allocation should be stated in the study report, and the possibility of attrition
8 bias considered within the analysis; however, these are not always reported.

9 **C1. All groups were followed up for an equal length of time (or analysis**
10 **was adjusted to allow for differences in length of follow-up)**

11 If the comparison groups are followed for different lengths of time, then more
12 events are likely to occur in the group followed up for longer, distorting the
13 comparison. This may be overcome by adjusting the denominator to take the
14 time into account; for example by using person-years.

15 **C2a. How many participants did not complete treatment in each group?**

16 A very high number of participants dropping out of a study should give
17 concern. The drop-out rate may be expected to be higher in studies conducted
18 over a longer period of time. The drop-out rate includes people who did not
19 even start treatment; that is, they were excluded from the study after
20 allocation to treatment groups.

21 **C2b. The groups were comparable for treatment completion (that is, there**
22 **were no important or systematic differences between groups in terms of**
23 **those who did not complete treatment)**

24 If there are systematic differences between groups in terms of those who did
25 not complete treatment, consider both why participants dropped out and
26 whether any systematic differences in those who dropped out may be related
27 to the outcome under study, such as potential confounders. Systematic
28 differences between groups in terms of those who dropped out may also
29 result in treatment groups that are no longer comparable with respect to
30 potential confounding factors.

31 **C3a. For how many participants in each group were no outcome data**
32 **available?**

33 A very high number of participants for whom no outcome data were available
34 should give concern.

35 **C3b. The groups were comparable with respect to the availability of**
36 **outcome data (that is, there were no important or systematic differences**
37 **between groups in terms of those for whom outcome data were not**
38 **available)**

39 If there are systematic differences between groups in terms of those for whom
40 no outcome data were available, consider both why the outcome data were

1 not available and whether there are any systematic differences between
2 participants for whom outcome data were and were not available.

3 **D: Detection bias (this section should be completed individually for each**
4 **important relevant outcome)**

5 The way outcomes are assessed needs to be standardised for the comparison
6 groups; failure to 'blind' people who are assessing outcomes can also lead to
7 bias, particularly with subjective outcomes. Most studies report results for
8 more than one outcome, and it is possible that detection bias may be present
9 in a study for some, but not all, outcomes. It is therefore recommended that
10 this section is completed individually for each important outcome that is
11 relevant to the guideline review question under study. To avoid biasing your
12 review, you should identify the relevant outcomes **before** considering the
13 results of the study. Clinical input may be required to identify the most
14 important outcomes for a review.

15 **D1. The study had an appropriate length of follow-up**

16 The follow-up of participants after treatment should be of an adequate length
17 to identify the outcome of interest. This is particularly important when
18 different outcomes of interest occur early and late after an intervention. For
19 example, after surgical interventions there is usually an early harm because of
20 side effects, with benefits apparent later on. A study that is too short will give
21 an unbalanced assessment of the intervention.
22 For events occurring later, a short study will give an imprecise estimate of the
23 effect, which may or may not also be biased. For example, a late-occurring
24 side effect will not be detected in the treatment arm if the study is too short.

25 **D2. The study used a precise definition of outcome D3. A valid and reliable**
26 **method was used to determine the outcome**

27 The outcome under study should be well defined. It should be clear how the
28 investigators determined whether participants experienced, or did not
29 experience, the outcome. The same methods for defining and measuring
30 outcomes should be used for all participants in the study. Often there may be
31 more than one way of measuring an outcome (for example, physical or
32 laboratory tests, questionnaire, reporting of symptoms). The method of
33 measurement should be valid (that is, it measures what it claims to measure)
34 and reliable (that is, it measures something consistently).

35 **D4. Investigators were kept 'blind' to participants' exposure to the**
36 **intervention D5. Investigators were kept 'blind' to other important**
37 **confounding and prognostic factors**

38 In this context the 'investigators' are the individuals who are involved in
39 making the decision about whether a participant has experienced the outcome
40 under study. This can include those responsible for taking physical
41 measurements and recording symptoms, even if they are not ultimately
42 responsible for determining the outcome. Investigators can introduce bias

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1 through differences in measurement and recording of outcomes, and making
 2 biased assessments of a participant's outcome based on the collected data. The
 3 degree to which lack of blinding can introduce bias will vary depending on
 4 the method of measuring an outcome, but will be greater for more subjective
 5 outcomes, such as reporting of pain.
 6 Physical separation of the assessment from the participant (for example,
 7 sending samples off to a laboratory) can often be considered as blind if it can
 8 be assumed that the laboratory staff are unaware of the treatment assignment.
 9

10 *Methodology checklist: cohort studies*

Study identification Include author, title, reference, year of publication					
Guideline topic:			Review question no:		
Checklist completed by:					
			Circle one option for each question:		
A. Selection bias (systematic differences between the comparison groups)					
A1	The method of allocation to treatment groups was unrelated to potential confounding factors (that is, the reason for participant allocation to treatment groups is not expected to affect the outcome(s) under study)	Yes	No	Unclear	N/A
A2	Were any attempts made within the design or analysis to balance the comparison groups for potential confounders?	Yes	No	Unclear	N/A
A3	The groups were comparable at baseline, including all major confounding and prognostic factors	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was selection bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					
B. Performance bias (systematic differences between groups in the care provided, apart from the intervention under investigation)					
B1	The comparison groups received the same care apart from the intervention(s) studied	Yes	No	Unclear	N/A

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B2	Participants receiving care were kept 'blind' to treatment allocation	Yes	No	Unclear	N/A
B3	Individuals administering care were kept 'blind' to treatment allocation	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was performance bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					
C. Attrition bias (systematic differences between the comparison groups with respect to loss of participants)					
C1	All groups were followed up for an equal length of time (or analysis was adjusted to allow for differences in length of follow-up)	Yes	No	Unclear	N/A
C2	a. How many participants did not complete treatment in each group?				
	b. The groups were comparable for treatment completion (that is, there were no important or systematic differences between groups in terms of those who did not complete treatment)	Yes	No	Unclear	N/A
C3	a. For how many participants in each group were no outcome data available?				
	b. The groups were comparable with respect to the availability of outcome data (that is, there were no important or systematic differences between groups in terms of those for whom outcome data were not available)	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was attrition bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					
D. Detection bias (bias in how outcomes are ascertained, diagnosed or verified)					
D1	The study had an appropriate length of follow-up	Yes	No	Unclear	N/A
D2	The study used a precise definition of outcome	Yes	No	Unclear	N/A

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D3	A valid and reliable method was used to determine the outcome	Yes	No	Unclear	N/A
D4	Investigators were kept 'blind' to participants' exposure to the intervention	Yes	No	Unclear	N/A
D5	Investigators were kept 'blind' to other important confounding/prognostic factors	Yes	No	Unclear	N/A
Based on your answers to the above, in your opinion was detection bias present? If so, what is the likely direction of its effect?					
Low risk of bias		Unclear/unknown risk		High risk of bias	
Likely direction of effect:					

1

1 *Notes on use of Methodology checklist: cohort studies*

2 Cohort studies are designed to answer questions about the relative effects of
3 interventions, such as drugs, psychological therapies, operations or placebos.
4 Such studies can include comparisons of 'test and treat strategies' involving a
5 diagnostic test and subsequent management. This checklist does not cover
6 comparisons of diagnostic test accuracy or questions about prognosis.

7 This checklist replaces the methodology checklist for cohort studies from 'The
8 guidelines manual 2007' (appendix D).

9 Some of the items on this checklist may need to be filled in individually for
10 different outcomes reported by the study. It is therefore important that the
11 systematic reviewer has a clear idea of what the important outcomes are
12 **before** appraising a study. You are likely to need input from the Guideline
13 Development Group in defining the important outcomes.

14 Checklist items are worded so that a 'yes' response always indicates that the
15 study has been designed/conducted in such a way as to minimise the risk of
16 bias for that item. An 'unclear' response to a question may arise when the
17 item is not reported or is not reported clearly. 'N/A' should be used when a
18 cohort study cannot give an answer of 'yes' no matter how well it has been
19 done.

20 This checklist is designed to assess the internal validity of the study; that is,
21 whether the study provides an unbiased estimate of what it claims to show.
22 Internal validity implies that the differences observed between groups of
23 participants allocated to different interventions may (apart from the
24 possibility of random error) be attributed to the intervention under
25 investigation. Biases are characteristics that are likely to make estimates of
26 effect differ systematically from the truth.

27 **Recording the presence and direction of bias**

28 This checklist contains four sections (A-D), each of which addresses a
29 potential source of bias relating to internal validity. At the end of each section
30 you are asked to give your opinion on whether bias is present, and to estimate
31 the likely direction of this bias - whether you think it will have increased or
32 decreased the effect size reported by the study. It will not always be possible
33 to determine the direction of bias, but thinking this through can help greatly
34 in interpreting results.

35 *A: Selection bias*

36 Selection bias can be introduced into a study when there are systematic
37 differences between the participants in the different treatment groups. As a
38 result, the differences in the outcome observed may be explained by pre-
39 existing differences between the groups rather than because of the treatment
40 itself. For example, if the people in one group are in poorer health, then they
41 are more likely to have a bad outcome than those in the other group,
42 regardless of the effect of the treatment. The treatment groups should be

1 similar at the start of the study – the only difference between the groups
2 should be in terms of the intervention received.
3 The main difference between randomised trials and non-randomised studies
4 is the potential susceptibility of the latter to selection bias. Randomisation
5 should ensure that, apart from the intervention received, the treatment groups
6 differ only because of random variation. However, care needs to be taken in
7 the design and analysis of non-randomised studies to take account of
8 potential confounding factors. There are two main ways of accounting for
9 potential confounding factors within non-randomised studies. Firstly,
10 participants can be allocated to treatment groups to ensure that the groups are
11 equal with respect to the known confounders. Secondly, statistical techniques
12 can be used within the analysis to take into account known differences
13 between groups. Neither of these approaches is able to address unknown or
14 unmeasurable confounding factors, and it is important to remember that
15 measurement of known confounders is subject to error. It can rarely, if ever,
16 be assumed that all important factors relevant to prognosis and
17 responsiveness to treatment are known. Hence, considerable judgement is
18 needed to assess the internal validity of non-randomised studies; clinical
19 input may be needed to identify potential confounding factors that should be
20 taken into consideration.

21 **A1. The method of allocation to treatment groups was unrelated to potential**
22 **confounding factors**

23 In non-randomised studies, there will usually be a reason why participants
24 are allocated to the treatment groups (often as a result of clinician and/or
25 patient choice). If this reason is linked to the outcome under study, this can
26 result in confounding by indication (where the decision to treat is influenced
27 by some factor that is related in turn to the treatment outcome). For example,
28 if the participants who are the most ill are selected for the treatment, then the
29 treatment group may experience worse outcomes because of this difference
30 between the groups at baseline. It will not always be possible to determine
31 from the report of a study which factors influenced the allocation of
32 participants to treatment groups.

33 **A2. Were any attempts made within the design or analysis to balance the**
34 **comparison groups for potential confounders?**

35 This represents an attempt when designing the study to ensure that the
36 groups are similar in terms of known confounding or prognostic factors, in
37 order to optimise comparability between the treatment groups. For example,
38 in a matched design, the controls are deliberately chosen to be equivalent to
39 the treatment group for any potential confounding variables, such as age and
40 sex.

41 An alternative approach is to use statistical techniques to adjust for known
42 confounding factors in the analysis.

1 **A3. The groups were comparable at baseline, including all major**
2 **confounding and prognostic factors**

3 Studies may report the distributions of potential prognostic and confounding
4 factors in the comparison groups, or important differences in these factors
5 may be noted.

6 Formal tests comparing the groups are problematic – failure to detect a
7 difference does not mean a difference does not exist, and multiple
8 comparisons of factors may falsely detect some differences that are not real.
9 Clinical input may be needed to determine whether all likely confounders
10 have been considered. Confounding factors may differ according to outcome,
11 so you will need to consider potential confounding factors for each of the
12 outcomes that are of interest to your review.

13 *B: Performance bias*

14 Performance bias refers to systematic differences in the care provided to the
15 participants in the comparison groups, other than the intervention under
16 investigation.

17 This may consist of additional treatment, advice or counselling, rather than a
18 physical intervention, or even simply a belief about the effects of an
19 intervention. If performance bias is present, it can be difficult to attribute any
20 observed effect to the experimental treatment rather than to the other factors.
21 Performance bias can be more difficult to determine within non-randomised
22 than within randomised studies, because the latter are likely to have been
23 better planned and executed according to strict treatment protocols that
24 specify standardised interventions and care. It may be particularly difficult to
25 determine performance bias for retrospective studies, where there is usually
26 no control over standardisation.

27 **B1. The comparison groups received the same care apart from the**
28 **intervention(s) studied**

29 There should be no differences between the treatment groups apart from the
30 intervention received. If some participants received additional treatment
31 (known as ‘co-intervention’), this treatment is a potential confounding factor
32 that may compromise the results.

33 *Blinding*

34 Blinding (also known as masking) refers to the process of withholding
35 information about treatment allocation or exposure status from those
36 involved in the study who could potentially be influenced by this
37 information. This can include participants, investigators, those administering
38 care and those involved in data collection and analysis. If people are aware of
39 the treatment allocation or exposure status (‘unblinded’), this can bias the
40 results of studies, either intentionally or unintentionally, through the use of
41 other effective co-interventions, decisions about withdrawal, differential

1 reporting of symptoms or influencing concordance with treatment. Blinding
2 of those assessing outcomes is covered in section D on detection bias.
3 Blinding of participants and carers is not always possible, particularly in
4 studies of non-drug interventions, and so performance bias may be a
5 particular issue in these studies. It is important to think about the likely size
6 and direction of bias caused by failure to blind.
7 The terms 'single blind', 'double blind' and even 'triple blind' are sometimes
8 used in studies. Unfortunately, they are not always used consistently.
9 Commonly, when a study is described as 'single blind', only the participants
10 are blind to their group allocation. When both participants and investigators
11 are blind to group allocation the study is often described as 'double blind'. It
12 is preferable to record exactly who was blinded, if reported, to avoid
13 misunderstanding.

14 **B2. Participants receiving care were kept 'blind' to treatment allocation**

15 The knowledge of assignment to a particular treatment group may affect
16 outcomes such as a study participant's reporting of symptoms, self-use of
17 other known interventions or even dropping out of the study.

18 **B3. Individuals administering care were kept 'blind' to treatment allocation**

19 If individuals who are administering the intervention and/or other care to the
20 participant are aware of treatment allocation, they may treat participants
21 receiving one treatment differently from those receiving the comparison
22 treatment; for example, by offering additional co-interventions.

23 *C: Attrition bias*

24 Attrition refers to the loss of participants during the course of a study.
25 Attrition bias occurs when there are systematic differences between the
26 comparison groups with respect to participants lost, or differences between
27 the participants lost to the study and those who remain. Attrition can occur at
28 any point after participants have been allocated to their treatment groups. As
29 such, it includes participants who are excluded after allocation (and may
30 indicate a violation of eligibility criteria), those who do not complete
31 treatment (whether or not they continue measurement) and those who do not
32 complete outcome measurement (regardless of whether or not treatment was
33 completed). Consideration should be given to why participants dropped out,
34 as well as how many. Participants who dropped out of a study may differ in
35 some significant way from those who remained as part of the study
36 throughout. Drop-out rates and reasons for dropping out should be similar
37 across all treatment groups. The proportion of participants excluded after
38 allocation should be stated in the study report and the possibility of attrition
39 bias considered within the analysis; however, these are not always reported.

40 **C1. All groups were followed up for an equal length of time (or analysis**
41 **was adjusted to allow for differences in length of follow-up)**

1 If the comparison groups are followed for different lengths of time, then more
2 events are likely to occur in the group followed up for longer, distorting the
3 comparison. This may be overcome by adjusting the denominator to take the
4 time into account; for example by using person-years.

5 **C2a. How many participants did not complete treatment in each group?**

6 A very high number of participants dropping out of a study should give
7 concern. The drop-out rate may be expected to be higher in studies conducted
8 over a longer period of time. The drop-out rate includes people who did not
9 even start treatment; that is, they were excluded from the study after
10 allocation to treatment groups.

11 **C2b. The groups were comparable for treatment completion (that is, there
12 were no important or systematic differences between groups in terms of
13 those who did not complete treatment)**

14 If there are systematic differences between groups in terms of those who did
15 not complete treatment, consider both why participants dropped out and
16 whether any systematic differences in those who dropped out may be related
17 to the outcome under study, such as potential confounders. Systematic
18 differences between groups in terms of those who dropped out may also
19 result in treatment groups that are no longer comparable with respect to
20 potential confounding factors.

21 **C3a. For how many participants in each group were no outcome data
22 available?**

23 A very high number of participants for whom no outcome data were available
24 should give concern.

25 **C3b. The groups were comparable with respect to the availability of
26 outcome data (that is, there were no important or systematic differences
27 between groups in terms of those for whom outcome data were not
28 available)**

29 If there are systematic differences between groups in terms of those for whom
30 no outcome data were available, consider both why the outcome data were
31 not available and whether there are any systematic differences between
32 participants for whom outcome data were and were not available.

33 *D: Detection bias (this section should be completed individually for each important
34 relevant outcome)*

35 The way outcomes are assessed needs to be standardised for the comparison
36 groups; failure to 'blind' people who are assessing the outcomes can also lead
37 to bias, particularly with subjective outcomes. Most studies report results for
38 more than one outcome, and it is possible that detection bias may be present
39 for some, but not all, outcomes. It is therefore recommended that this section
40 is completed individually for each important outcome that is relevant to the
41 guideline review question under study. To avoid biasing your review, you

1 should identify the relevant outcomes **before** considering the results of the
2 study. Clinical input may be required to identify the most important
3 outcomes for a review.

4 **D1. The study had an appropriate length of follow-up**

5 The follow-up of participants after treatment should be of an adequate length
6 to identify the outcome of interest. This is particularly important when
7 different outcomes of interest occur early and late after an intervention. For
8 example, after surgical interventions there is usually early harm because of
9 side effects, with benefits apparent later on. A study that is too short will give
10 an unbalanced assessment of the intervention.

11 For events occurring later, a short study will give an imprecise estimate of the
12 effect, which may or may not also be biased. For example, a late-occurring
13 side effect will not be detected in the treatment arm if the study is too short.

14 **D2. The study used a precise definition of outcome D3. A valid and reliable
15 method was used to determine the outcome**

16 The outcome under study should be well defined and it should be clear how
17 the investigators determined whether participants experienced, or did not
18 experience, the outcome. The same methods for defining and measuring
19 outcomes should be used for all participants in the study. Often there may be
20 more than one way of measuring an outcome (for example, physical or
21 laboratory tests, questionnaire, reporting of symptoms). The method of
22 measurement should be valid (that is, it measures what it claims to measure)
23 and reliable (that is, it measures something consistently).

24 **D4. Investigators were kept 'blind' to participants' exposure to the
25 intervention D5. Investigators were kept 'blind' to other important
26 confounding and prognostic factors**

27 In this context the 'investigators' are the individuals who are involved in
28 making the decision about whether a participant has experienced the outcome
29 under study. This can include those responsible for taking physical
30 measurements and recording symptoms, even if they are not ultimately
31 responsible for determining the outcome. Investigators can introduce bias
32 through differences in measurement and recording of outcomes, and making
33 biased assessments of a participant's outcome based on the collected data. The
34 degree to which lack of blinding can introduce bias will vary depending on
35 the method of measuring an outcome, but will be greater for more subjective
36 outcomes, such as reporting of pain.

37 Physical separation of the assessment from the participant (for example,
38 sending samples off to a laboratory) can often be considered as blind if it can
39 be assumed that the laboratory staff are unaware of the treatment assignment.

1 *Methodology checklist: case-control studies*

Study identification Include author, title, reference, year of publication			
Guideline topic:		Review question no:	
Checklist completed by:			
Section 1: Internal validity			
		Circle one option for each question	
1.1	The study addresses an appropriate and clearly focused question.	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
Selection of participants			
1.2	The cases and controls are taken from comparable populations	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
1.3	The same exclusion criteria are used for both cases and controls	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
1.4	What was the participation rate for each group (cases and controls)?	Cases: Controls:	
1.5	Participants and non-participants are compared to establish their similarities or differences	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
1.6	Cases are clearly defined and differentiated from controls	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
1.7	It is clearly established that controls are not cases	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
Assessment			
1.8	Measures were taken to prevent knowledge of primary exposure influencing case ascertainment	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable

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1.9	Exposure status is measured in a standard, valid and reliable way	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
Confounding factors			
1.10	The main potential confounders are identified and taken into account in the design and analysis	Well covered Adequately addressed Poorly addressed	Not addressed Not reported Not applicable
Statistical analysis			
1.11	Have confidence intervals been provided?		

1

<p>Section 2: Description of the study (This information is required for evidence tables to facilitate cross-study comparisons. Please complete all sections for which information is available). Please print clearly</p>	
2.1	How many people participated in the study? <i>List the numbers of cases and controls separately.</i>
2.2	What are the main characteristics of the study population? <i>Include all characteristics used to identify both cases and controls – for example, age, sex, social class, disease status.</i>
2.3	What environmental or prognostic factor is being investigated?
2.4	What comparisons are made? <i>Normally only one factor will be compared, but in some cases the extent of exposure may be stratified – for example, non-smokers vs light, moderate or heavy smokers. Note all comparisons here.</i>
2.5	For how long are participants followed up? <i>This is the length of time over which participant histories are tracked in the study.</i>
2.6	What outcome measure(s) is/are used? <i>List all outcomes that are used to assess the impact of the chosen environmental or prognostic factor.</i>
2.7	What size of effect is identified? <i>Effect size should be expressed as an odds ratio. If any other measures are included, note them as well. Include p-values and any confidence intervals that are provided.</i>
2.8	How was the study funded? <i>List all sources of funding quoted in the article, whether government, voluntary sector or industry.</i>
2.9	Does this study help to answer your guideline review question? <i>Summarise the main conclusions of the study and indicate how it relates to the review question.</i>

1
2

1 *Notes on use of the Methodology checklist: case-control studies*

2 Case-control studies are designed to answer questions of the type ‘What are
3 the factors that caused this event?’. They involve comparison of individuals
4 who have an outcome with other individuals from the same population who
5 do not have the outcome. These studies start after the outcome of an event,
6 and can be used to assess multiple causes of a single event. They are generally
7 used to assess the causes of a new problem but they may also be useful for the
8 evaluation of population-based interventions such as screening.

9 The questions in **section 1** are aimed at establishing the internal validity of the
10 study under review – that is, making sure that it has been carried out
11 carefully, and that any link between events and outcomes is clearly
12 established. Each question covers an aspect of methodology that has been
13 shown to make a significant difference to the conclusions of a study.

14 Case-control studies need to be designed very carefully, – the complexity of
15 their design is often not appreciated by investigators, and so many poor-
16 quality studies are conducted. The questions in this checklist are designed to
17 identify the main features that should be present in a well-designed study.

18 There are few criteria that should, alone and unsupported, lead to rejection of
19 a study. However, a study that fails to address or report on more than one or
20 two of the questions in the checklist should almost certainly be rejected.

21 For each question in this section you should choose one of the following
22 categories to indicate how well it has been addressed in the study:

- 23 • well covered
- 24 • adequately addressed
- 25 • poorly addressed
- 26 • not addressed (not mentioned, or this aspect of study design was
27 ignored)
- 28 • not reported (mentioned, but with insufficient detail to allow
29 assessment to be made)
- 30 • not applicable.

31

32 **1.1 The study addresses an appropriate and clearly focused question**

33 Unless a clear and well-defined question is specified, it will be difficult to
34 assess how well the study has met its objectives or how relevant it is to the
35 question you are trying to answer.

36 *Selection of participants*

37 **1.2 The cases and controls are taken from comparable populations**

38 Study participants may be selected from the target population (all individuals
39 to which the results of the study could be applied), from the source
40 population (a defined subset of the target population from which participants
41 are selected) or from a pool of eligible people (a clearly defined and counted

1 group selected from the source population). A study that does not include
2 clear definitions of the source population should be rejected.

3 **1.3 The same exclusion criteria are used for both cases and controls**

4 All selection and exclusion criteria should be applied equally to cases and
5 controls. Failure to do so may introduce a significant degree of bias into the
6 results of the study.

7 **1.4 What was the participation rate for each group (cases and controls)?**

8 Differences between the eligible population and the study participants are
9 important because they may influence the validity of the study. A
10 participation rate can be calculated by dividing the number of study
11 participants by the number of people who are eligible to participate. It is more
12 useful if it is calculated separately for cases and controls. If the participation
13 rate is low, or there is a large difference in rate between cases and controls, the
14 study results may be invalid because of differences between participants and
15 non-participants. In these circumstances the study should be downgraded,
16 and rejected if the differences are very large.

17 **1.5 Participants and non-participants are compared to establish their 18 similarities or differences**

19 Even if participation rates are comparable and acceptable, it is still possible
20 that the participants selected to act as cases or controls may differ from other
21 members of the source population in some significant way. A well-conducted
22 case-control study will look at samples of those not participating among the
23 source population to ensure that the participants are a truly representative
24 sample.

25 **1.6 Cases are clearly defined and differentiated from controls**

26 The method of selection of cases is of critical importance to the validity of the
27 study. Investigators have to be certain that cases are truly cases, but must
28 balance this with the need to ensure that the cases admitted into the study are
29 representative of the eligible population. The issues involved in case selection
30 are complex, and should ideally be evaluated by someone with a good
31 understanding of the design of case-control studies. If there is no information
32 on how cases were selected it is probably safest to reject the study as a source
33 of evidence.

34 **1.7 It is clearly established that controls are not cases**

35 Just as it is important to be sure that cases are true cases, it is important to be
36 sure that controls do not have the outcome under investigation. Controls
37 should be chosen so that information on exposure status can be obtained or
38 assessed in a similar way to that used for the selection of cases. If the methods
39 of control selection are not described, the study should be rejected. If different
40 methods of selection are used for cases and controls, the study should be

1 evaluated by someone with a good understanding of the design of case-
2 control studies.
3 Assessment

4 **1.8 Measures were taken to prevent knowledge of primary exposure from**
5 **influencing case ascertainment**

6 If there is a possibility that case ascertainment was influenced by knowledge
7 of exposure status, assessment of any association is likely to be biased. A well-
8 conducted study should take this into account in the design of the study.

9 **1.9 Exposure status is measured in a standard, valid and reliable way**

10 The inclusion of evidence from other sources or previous studies that
11 demonstrate the validity and reliability of the assessment methods, or that the
12 measurement method is a recognised procedure, should increase confidence
13 in study quality.

14 *Confounding factors*

15 **1.10 The main potential confounders are identified and taken into account**
16 **in the design and analysis**

17 Confounding is the distortion of a link between exposure and outcome by
18 another factor that is associated with both exposure and outcome. The
19 possible presence of confounding factors is one of the principal reasons why
20 observational studies are not more highly rated as a source of evidence. The
21 report of the study should indicate which potential confounders have been
22 considered, and how they have been assessed or accounted for in the analysis.
23 Clinical judgement should be used to consider whether all likely confounders
24 have been taken into account. If the measures used to address the potential
25 effects of confounders are considered inadequate, the study should be
26 downgraded or rejected, depending on how serious the risk of confounding is
27 considered to be. A study that does not address the possibility of confounding
28 should be rejected.

29 *Statistical analysis*

30 **1.11 Have confidence intervals been provided?**

31 Confidence intervals are the preferred method for indicating the precision of
32 statistical results, and can be used to differentiate between an inconclusive
33 study and a study that shows no effect. Studies that report a single value with
34 no assessment of precision should be treated with caution.

35 **Section 2** of the checklist asks you to summarise key points about the study
36 that will be added to an evidence table (see appendix K) in the next stage of
37 the process.

38

1 **Methodology checklist: the QUADAS tool for studies of diagnostic**
 2 **test accuracy**

3 Adapted from: Whiting, P., Rutjes, A.W., Dinnes, J. *et al.* (2004) Development
 4 and validation of methods for assessing the quality of diagnostic accuracy
 5 studies. *Health Technology Assessment*, 8, 1-234.

6

Study identification Including author, title, reference, year of publication				
Guideline topic:	Review question no:			
Checklist completed by:				
	Circle one option for each question			
Was the spectrum of participants representative of the patients who will receive the test in practice?	Yes	No	Unclear	N/A
Were selection criteria clearly described?	Yes	No	Unclear	N/A
Was the reference standard likely to classify the target condition correctly?	Yes	No	Unclear	N/A
Was the period between performance of the reference standard and the index test short enough to be reasonably sure that the target condition did not change between the two tests?	Yes	No	Unclear	N/A
Did the whole sample or a random selection of the sample receive verification using the reference standard?	Yes	No	Unclear	N/A
Did participants receive the same reference standard regardless of the index test result?	Yes	No	Unclear	N/A
Was the reference standard independent of the index test? (that is, the index test did not form part of the reference standard)	Yes	No	Unclear	N/A
Was the execution of the index test described in sufficient detail to permit its replication?	Yes	No	Unclear	N/A
Was the execution of the reference standard described in sufficient detail to permit its replication?	Yes	No	Unclear	N/A
Were the index test results interpreted without knowledge of the results of the reference standard?	Yes	No	Unclear	N/A
Were the reference standard results interpreted without knowledge of the results of the index test?	Yes	No	Unclear	N/A
Were the same clinical data available when the test results were interpreted as would be available when the test is used in practice?	Yes	No	Unclear	N/A
Were uninterpretable, indeterminate or intermediate test results reported?	Yes	No	Unclear	N/A
Were withdrawals from the study explained?	Yes	No	Unclear	N/A

7

1 Notes on use of Methodology checklist: studies of diagnostic test accuracy
2 This checklist is designed for the evaluation of studies assessing the accuracy
3 of specific diagnostic tests. It does **not** address questions of the usefulness of
4 the test in practice, or how the test compares with alternatives. Such questions
5 should be assessed using the checklists for studies on interventions (see
6 appendices D, E and F).

7
8 The questions in this checklist are aimed at establishing the validity of the
9 study under review – that is, making sure that it has been carried out
10 carefully, and that the conclusions represent an unbiased assessment of the
11 accuracy and reliability of the test being evaluated. Each question covers an
12 aspect of methodology that is thought to make a difference to the reliability of
13 a study.

14
15 Checklist items are worded so that a ‘yes’ response always indicates that the
16 study has been designed and conducted in such a way as to minimise the risk
17 of bias for that item. An ‘unclear’ response to a question may arise when the
18 answer to an item is not reported, or not reported clearly. ‘N/A’ should be
19 used when a study of diagnostic test accuracy cannot give an answer of ‘yes’
20 no matter how well it has been done.

21 **Was the spectrum of participants representative of the patients who will**
22 **receive the test in practice?**

23 *What is meant by this item*

24 Differences between populations in demographic and clinical features may
25 produce measures of diagnostic accuracy that vary considerably; this is
26 known as spectrum bias. Reported estimates of diagnostic test accuracy may
27 have limited clinical applicability (generalisability) if the spectrum of
28 participants tested is not representative of the patients on whom the test will
29 be used in practice. The spectrum of participants takes into account not only
30 the severity of the underlying target condition but also demographic features
31 and the presence of differential diagnoses and/or comorbidities.

32 *How to score this item*

33 Studies should score ‘yes’ for this item if you believe, based on the
34 information reported, that the spectrum of participants included in the study
35 was representative of those in whom the test will be used in practice. This
36 judgement should be based on both the method for recruitment and the
37 characteristics of those recruited. Studies that recruited a group of healthy
38 controls and a group known to have the target disorder will be coded as ‘no’
39 on this item in nearly all circumstances. Reviewers should pre-specify what
40 spectrum of participants would be acceptable, taking into account factors such
41 as disease prevalence and severity, age and sex. Clinical input may be
42 required from the Guideline Development Group (GDG). If you think that the
43 population studied does not fit into what you specified as acceptable, the

1 study should be scored as 'no'. If there is insufficient information available to
2 make a judgement, this item should be scored as 'unclear'.

3 **Were selection criteria clearly described?**

4 *What is meant by this item*

5 This refers to whether studies have reported criteria for entry into the study.

6 *How to score this item*

7 If you think that all relevant information regarding how participants were
8 selected for inclusion in the study has been provided, then this item should be
9 scored as 'yes'. If study selection criteria are not clearly reported, then this
10 item should be scored as 'no'. In situations where selection criteria are
11 partially reported and you feel that you do not have enough information to
12 score this item as 'yes', then it should be scored as 'unclear'.

13 **Was the reference standard likely to classify the target condition correctly?**

14 *What is meant by this item*

15 The reference standard is the method used to determine the presence or
16 absence of the target condition. Indicators of diagnostic test accuracy are
17 calculated by comparing the results of the index test with the results of the
18 reference standard. Estimates of test performance are based on the
19 assumption that the index test is being compared with a reference standard
20 that is 100% sensitive and specific. If there are any disagreements between the
21 reference standard and the index test, it is assumed that the index test is
22 incorrect. Thus the use of an inappropriate reference standard can bias
23 estimation of the diagnostic accuracy of the index test.

24 *How to score this item*

25 Making a judgement about the accuracy of the reference standard may not be
26 straightforward. You may need to consult a member of the GDG to determine
27 whether a test is an appropriate reference standard. If a combination of tests is
28 used, you may have to consider carefully whether these were appropriate.
29 If you believe that the reference standard is likely to classify the target
30 condition correctly, then this item should be scored as 'yes'. If you do not
31 think that the reference standard is likely to have classified the target
32 condition correctly, then this item should be scored as 'no'. If there is
33 insufficient information to make a judgement, then it should be scored as
34 'unclear'.

35 **Was the period between performance of the reference standard and the
36 index test short enough to be reasonably sure that the target condition did
37 not change between the two tests?**

38 *What is meant by this item*

1 Ideally, the results of the index test and the reference standard are collected
2 on the same participants at the same time. If this is not possible and there is a
3 delay, misclassification may occur because of either spontaneous recovery or
4 progression of the disease. This is known as disease progression bias. The
5 length of the period that may cause such bias will vary between conditions.
6 For example, a delay of a few days is unlikely to be a problem for chronic
7 conditions. However, for infectious diseases a delay of only a few days
8 between performance of the index test and the reference standard may be
9 important. This type of bias may also occur in chronic conditions in which the
10 reference standard involves clinical follow-up of several years.
11 You will have to make judgements about what is considered 'short enough'.
12 You should think about this **before** beginning your review, and define what
13 you consider to be short enough for the specific topic area that you are
14 reviewing. You may need clinical input to decide this.

15 *How to score this item*

16 When to score this item as 'yes' is related to the target condition. For
17 conditions that progress rapidly, a delay of a even few days may be
18 important. For such conditions this item should be scored as 'yes' if the delay
19 between the performance of the index test and the reference standard is very
20 short - a matter of hours or days. However, for chronic conditions, disease
21 status is unlikely to change in a week, a month or even longer. For such
22 conditions, longer delays between performance of the index test and reference
23 standard may be scored as 'yes'. If you think that the period between the
24 performance of the index test and the reference standard was sufficiently long
25 that disease status may have changed between the performance of the two
26 tests, then this item should be scored as 'no'. If insufficient information is
27 provided, it should be scored as 'unclear'.

28 **Did the whole sample or a random selection of the sample receive**
29 **verification using the reference standard?**

30 *What is meant by this item*

31 Partial verification bias (also known as work-up bias, [primary] selection bias
32 or sequential ordering bias) occurs when not all of the study group receive
33 confirmation of the diagnosis by a reference standard. If the results of the
34 index test influence the decision to perform the reference standard, then
35 biased estimates of test performance may arise. If participants are randomly
36 selected to receive the reference standard, the overall diagnostic performance
37 of the test is, in theory, unchanged. However, in most cases this selection is
38 not random, possibly leading to biased estimates of the overall diagnostic
39 accuracy. Partial verification bias generally only occurs in diagnostic cohort
40 studies in which participants are tested using the index test before the
41 reference standard.

42 *How to score this item*

1 If it is clear from the study that all participants (or a random selection) who
2 received the index test went on to receive verification of their disease status
3 using a reference standard, even if this reference standard was not the same
4 for all participants, then this item should be scored as 'yes'. If some of the
5 participants who received the index test did not receive verification of their
6 true disease state (or the selection was not random), then this item should be
7 scored as 'no'. If this information is not reported, this item should be scored as
8 'unclear'.

9 **Did participants receive the same reference standard regardless of the index**
10 **test result?**

11 *What is meant by this item*

12 Differential verification bias occurs when some of the index test results are
13 verified by a different reference standard. This is a particular problem if these
14 reference standards differ in their definition of the target condition; for
15 example, histopathology of the appendix and natural history for the detection
16 of appendicitis. This usually occurs when participants who test positive on
17 the index test undergo a more accurate, often invasive, reference standard test
18 than those with negative results on the index test. The link (correlation)
19 between a particular (negative) test result and being verified by a less accurate
20 reference standard can lead to biased estimates of test accuracy. Differential
21 verification bias generally only occurs in diagnostic cohort studies in which
22 all participants are tested using the index test before the reference standard is
23 performed.

24 *How to score this item*

25 If it is clear that participants received verification of their true disease status
26 using the same reference standard, then this item should be scored as 'yes'. If
27 some participants received verification using a different reference standard,
28 then this item should be scored as 'no'. If this information is not reported, this
29 item should be scored as 'unclear'.

30 **Was the reference standard independent of the index test? (that is, the index**
31 **test did not form part of the reference standard)**

32 *What is meant by this item*

33 When the result of the index test is used in establishing the final diagnosis,
34 incorporation bias may occur. This incorporation will probably increase the
35 amount of agreement between index test results and the outcome of the
36 reference standard, and hence result in overestimation of the various
37 measures of diagnostic accuracy. For example, a study investigating magnetic
38 resonance imaging (MRI) for the diagnosis of multiple sclerosis could have a
39 reference standard composed of clinical follow-up, cerebrospinal fluid
40 analysis and MRI. In this case, the index test forms part of the reference
41 standard. It is important to note that knowledge of the results of the index test

1 does not automatically mean that these results are incorporated in the
2 reference standard. This item will only apply when a composite reference
3 standard is used to verify disease status. In such cases it is essential that a full
4 definition of how disease status is verified and which tests form part of the
5 reference standard is provided.

6 *How to score this item*

7 For studies in which a single reference standard is used, this item will not be
8 relevant and should be scored as 'N/A'. If it is clear that the index test did not
9 form part of the reference standard, then this item should be scored as 'yes'. If
10 it appears that the index test formed part of the reference standard, then this
11 item should be scored as 'no'. If this information is not reported, this item
12 should be scored as 'unclear'.

13 **Was the execution of the index test described in sufficient detail to permit**
14 **its replication? Was the execution of the reference standard described in**
15 **sufficient detail to permit its replication?**

16 *What is meant by these items*

17 A sufficiently detailed description of the execution of the index test and the
18 reference standard is important for two reasons. Firstly, variation in measures
19 of diagnostic accuracy can sometimes be traced back to differences in the
20 execution of index tests and reference standards. Secondly, a clear and
21 detailed description (or references) is needed to implement a certain test in
22 another setting. If tests are executed in different ways then this would be
23 expected to have an impact on test performance. The extent to which this
24 would be expected to affect results depends on the type of test being
25 investigated.

26 *How to score these items*

27 If the study reports sufficient details to permit replication of the index test and
28 the reference standard, then these items should be scored as 'yes'. In other
29 cases these items should be scored as 'no'. In situations where details of test
30 performance are partially reported and you consider that you do not have
31 enough information to score these items as 'yes', then they should be scored
32 as 'unclear'.

33 **Were the index test results interpreted without knowledge of the results of**
34 **the reference standard? Were the reference standard results interpreted**
35 **without knowledge of the results of the index test?**

36 *What is meant by these items*

37 This issue is similar to the blinding of the people who assess outcomes in
38 intervention studies. Interpretation of the results of the index test may be
39 influenced by knowledge of the results of the reference standard, and vice
40 versa. This is known as review bias, and may lead to inflated measures of

1 diagnostic test accuracy. The extent to which this can affect test results will be
2 related to the degree of subjectivity in the interpretation of the test result – the
3 more subjective the interpretation, the more likely that the interpreter can be
4 influenced by the results of the index test in interpreting the results of the
5 reference standard, and vice versa. It is therefore important to consider the
6 topic area that you are reviewing and to determine whether interpretation of
7 the results of the index test or the reference standard could be influenced by
8 knowledge of the results of the other test.

9 *How to score these items*

10 If the study clearly states that the test results (index test or reference standard)
11 were interpreted blind to the results of the other test, then these items should
12 be scored as 'yes'. If this does not appear to be the case, then they should be
13 scored as 'no'. If this information is not reported, these items should be scored
14 as 'unclear'. If in the topic area that you are reviewing the index test is always
15 performed first, then interpretation of the results of the index test will usually
16 be done without knowledge of the results of the reference standard. Similarly,
17 if the reference standard is always performed first, then the results will be
18 interpreted without knowledge of the results of the index test. In situations
19 where one form of review bias does not apply, the item should be scored as
20 'N/A'. If interpretation of test results is entirely objective, then test
21 interpretation is not susceptible to review bias and the item should be scored
22 as 'N/A'. Another situation in which this form of bias may not apply is when
23 test results are interpreted in an independent laboratory. In such situations it
24 is unlikely that the person interpreting the test results will have knowledge of
25 the results of the other test (either index test or reference standard).

26 **Were the same clinical data available when the test results were interpreted**
27 **as would be available when the test is used in practice?**

28 *What is meant by this item*

29 The availability of information on clinical data during the interpretation of
30 test results may affect estimates of test performance. In this context, clinical
31 data are defined broadly to include any information relating to the participant
32 that is obtained by direct observation, such as age, sex and symptoms. The
33 knowledge of such factors can influence the diagnostic test result if the test
34 involves an interpretative component. If clinical data will be available when
35 the test is interpreted in practice, then these should also be available when the
36 test is evaluated. However, if the index test is intended to replace other
37 clinical tests, then clinical data should not be available. Thus, before assessing
38 studies for this item it is important to determine what information will be
39 available when test results are interpreted in practice. You should consult the
40 GDG to identify this information.

41 *How to score this item*

1 If clinical data would normally be available when the test results are
2 interpreted in practice and similar data were available when interpreting the
3 index test results in the study, then this item should be scored as 'yes'.
4 Similarly, if clinical data would not be available in practice and these data
5 were not available when the index test results were interpreted, then this item
6 should be scored as 'yes'. If this is not the case, then this item should be
7 scored as 'no'. If this information is not reported, this item should be scored as
8 'unclear'. If interpretation of the index test is fully automated, this item may
9 not be relevant and can be scored 'N/A'.

10 **Were uninterpretable, indeterminate or intermediate test results reported?**

11 *What is meant by this item*

12 A diagnostic test can produce an uninterpretable, indeterminate or
13 intermediate result with varying frequency, depending on the test. These
14 problems are often not reported in studies on diagnostic test accuracy, the
15 uninterpretable results simply being removed from the analysis. This may
16 lead to the biased assessment of the test characteristics. Whether bias will
17 arise depends on the possible correlation between uninterpretable test results
18 and the true disease status. If uninterpretable results occur randomly and are
19 not related to the true disease status of the individual then, in theory, these
20 should not have any effect on test performance. It is important that
21 uninterpretable results are reported so that the impact on test performance
22 can be considered; however, poor quality of reporting means that this is not
23 always the case.

24 *How to score this item*

25 If it is clear that all test results, including uninterpretable, indeterminate or
26 intermediate results, are reported, then this item should be scored as 'yes'. If
27 the authors do not report any uninterpretable, indeterminate or intermediate
28 results, and if the results are reported for all participants who were described
29 as having been entered into the study, then this item should also be scored as
30 'yes'. If you think that such results occurred but have not been reported, then
31 this item should be scored as 'no'. If it is not clear whether all study results
32 have been reported, then this item should be scored as 'unclear'.

33 **Were withdrawals from the study explained?**

34 *What is meant by this item*

35 This occurs when participants withdraw from the study before the results of
36 both the index test and the reference standard are known. If participants lost
37 to follow-up differ systematically from those who remain, for whatever
38 reason, then estimates of test performance may be biased. Poor quality of
39 reporting of withdrawals may make the impact on estimates of test
40 performance difficult to determine.

CONSULTATION DRAFT

1 *How to score this item*

2 If it is clear what happened to all participants who entered the study, for
3 example if a flow diagram of study participants is reported, then this item
4 should be scored as 'yes'. If the authors do not report any withdrawals and if
5 results are available for all participants who were reported to have been
6 entered into the study, then this item should also be scored as 'yes'. If it
7 appears that some of the participants who entered the study did not complete
8 the study (that is, did not receive both the index test and the reference
9 standard), and these participants were not accounted for, then this item
10 should be scored as 'no'. If it is not clear whether all participants who entered
11 the study were accounted for, then this item should be scored as 'unclear'.
12

1 **APPENDIX 12: SEARCH STRATEGIES FOR THE**
2 **IDENTIFICATION OF HEALTH ECONOMICS EVIDENCE**

3
4 **Search strategies**

5
6 The search strategies should be referred to in conjunction with information set
7 out in Section 3.6.1. Each search was constructed using the groups of terms as
8 set out in Box 1. The full set of terms for each search in Medline are
9 documented below.

1

Box 1: Summary of systematic search strategies

Chapter: Training				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Staff training	New	[(Self-harm terms) AND (Staff training terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Chapter: Psychosocial assessment				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Risk and protective factors	New	[(Self-harm terms) AND (Risk and protective factor terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Formal risk assessment, needs assessment and psychosocial assessment	New	[(Self-harm terms) AND (Risk assessment, needs assessment, psychosocial assessment terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Chapter: Psychosocial interventions				

CONSULTATION DRAFT

Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Self management and/or harm reduction strategies	New	[(Self-harm terms) and (Self management and/or harm reduction strategy terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Psychosocial interventions	New	[(Self-harm terms) and (Psychosocial intervention terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Chapter: Pharmacological interventions				
Review area	Search type	Search construction (applicable to each review area)	Study design	Databases / date range
Pharmacological interventions	New	[(Self harm terms) AND (Pharmacological intervention terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]
Safer prescribing	New	[(Self harm terms) AND (Safer prescribing terms) AND (HE/QoL filter)]	Economic evidence (including full and partial economic evaluations) and health technology assessment reports	CINAHL, EMBASE, MEDLINE, PsycINFO, NHS EED, HTA, EconLit [01.01.1995 up to 25 January 2011]

1 *a) Self harm - population search terms*

2
3 Medline - Ovid SP interface

- 4
5 1. overdose/ or self-injurious behavior/ or self mutilation/ or suicidal
6 ideation/ or suicide/ or suicide, attempted/
7 2. (autoaggress\$ or auto aggress\$ or automutilat\$ or auto mutilat\$ or
8 cutt\$ or overdose\$ or (self adj2 cut\$) or selfdestruct\$ or self destruct\$
9 or selfharm\$ or self harm\$ or selfimmolat\$ or self immolat\$ or
10 selfinflict\$ or self inflict\$ or selfinjur\$ or self injur\$ or selfmutilat\$ or
11 self mutilat\$ or selfpoison\$ or self poison\$ or suicid\$).ti,ab.
12 3. or/1-2
13
14

15 **Question specific search strategies**

16
17
18 *a) Staff training*

19
20 Medline - Ovid SP interface

21
22 *Does the provision of staff training (knowledge, skills based) improve outcomes?*

- 23 1. educational, premedical/ or exp education, professional/ or faculty/
24 or faculty, medical/ or faculty, nursing/ or exp inservice training/ or
25 exp professional competence/ or exp schools, health occupations/
26 2. accreditation/ or certification/ or competency based education/ or
27 credentialing/ or exp curriculum/ or education/ or knowledge/ or
28 learning/ or mentors/ or teaching/ or ed.fs.
29 3. (competen\$ or course\$1 or cpd\$1 or curricul\$ or educat\$ or information
30 or instruct\$ or knowledge or learn\$ or module\$ or posttrain\$ or
31 pretrain\$ or ((clinical or professional) adj2 (develop\$ or improv\$ or
32 practice)) or skill\$ or teach\$ or train\$ or workshop\$ or work
33 shop\$).ti,ab.
34 4. "attitude of health personnel" / or exp health personnel/ or exp
35 professional role/ or specialization/ or exp medicine/ or exp nursing/
36 or exp pharmacy/ or exp psychology/ or exp physicians/ or exp
37 psychiatry/
38 5. (analyst\$ or clinician\$ or consultant\$1 or counsel?or\$ or cpe or doctor\$
39 or employee or gp\$1 or health visitor\$ or medical expert\$ or nurs\$ or
40 personnel or pharmacist\$ or physician\$ or practitioner\$ or
41 professional\$ or psychiatrist\$ or psychoanalyst\$ or psychologist\$ or
42 psychotherapist\$ or specialist\$ or staff\$ or therapist\$ or
43 worker\$1).ti,ab.
44 6. (or/2-3 and or/4-5)
45 7. exp health personnel/ed
46 8. or/1,6,7
47

1 **b) Risk and protective factors**

2

3 Medline - Ovid SP interface

4

5 *What are the risk and protective factors (internal and external) amongst people who*
6 *self-harm that predict outcomes?*

7

8 1. risk factors/

9 2. (risk\$ adj2 relative).ti,ab.

10 3. ((predict\$ or protect\$ or risk\$) adj2 (associat\$ or attribute\$ or correlate\$
11 or determinant\$ or factor\$ or variable\$)).ti,ab.

12 4. or/1-3

13 5. ((predict\$ or risk\$) adj2 (ongoing or recur\$ or re cur\$ or reattempt\$ or
14 re attempt\$ or recur\$ or repeat\$ or repetit\$)).ti,ab.

15 6. prospective repetit\$.ti,ab.

16 7. ((associat\$ or attribute\$ or correlate\$ or determinant\$ or factor\$ or
17 variable\$) adj8 (ongoing or recur\$ or re cur\$ or reattempt\$ or re
18 attempt\$ or recur\$ or repeat\$ or repetit\$) adj8 (autoaggress\$ or
19 aggress\$ or automutilat\$ or cutt\$ or destruct\$ or dsh or episode\$ or
20 harm\$ or immolat\$ or inflict\$ or injur\$ or mutilat\$ or overdose\$ or (self
21 adj2 cut\$) or poison\$ or selfdestruct\$ or selfharm\$ or selfimmolat\$ or
22 selfinflict\$ or selfinjur\$ or selfmutilat\$ or selfpoison\$ or sh or
23 suicid\$)).ti,ab.

24 8. or/5-7

25 9. resilience, psychological/

26 10. (buffer\$ or cope\$ or recovery or resilien\$).ti,ab.

27 11. or/9-10

28 12. or/4,8,11

29

30

31 **c) Formal risk assessment, needs assessment and psychosocial assessment**

32

33 Medline - Ovid SP interface

34

35 *For people who self-harm, does formal risk assessment, needs assessment and*
36 *psychosocial assessment improve outcomes?*

37

38 1. (checklist/ or geriatric assessment/ or interview/ or interview,
39 psychological/ or mass screening/ or nursing assessment/ or
40 "outcome and process assessment (health care)"/ or "outcome
41 assessment (health care)"/ or exp personality assessment/ or exp
42 psychiatric status rating scales/ or exp psychological tests/ or
43 questionnaires/)

44 2. (form\$1 or checklist\$ or check list\$ or index\$ or indices or interview\$
45 or instrument\$ or inventor\$ or item\$1 or measure\$ or psychometric\$ or
46 psycho metric\$ or question\$ or scale\$ or score\$ or scoring or self
report\$ or subscale\$ or test\$ or tool\$).ti,ab.

CONSULTATION DRAFT

- 1 3. 1 or 2
- 2 4. "predictive value of tests"/ or recurrence/ or risk\$.hw.
- 3 5. (predict\$ or ongoing or recur\$ or re cur\$ or reattempt\$ or re attempt\$
- 4 or recur\$ or repeat\$ or repetit\$ or risk\$).ti,ab.
- 5 6. 4 or 5
- 6 7. area under curve/ or exp sensitivity and specificity/
- 7 8. ((area under adj2 curve) or auc or (diagnostic adj2 odds ratio\$) or
- 8 ((false or true) adj negative) or ((false or true) adj positive) or
- 9 (likelihood adj3 ratio\$) or ((pretest or pre test or posttest or post test)
- 10 adj2 probabilit\$) or (predict\$ adj3 value\$) or receiver operating
- 11 characteristic or (roc adj2 (analy\$ or curv\$ or plot\$)) or sensitiv\$ or
- 12 specificit\$).tw.
- 13 9. 7 or 8
- 14 10. and/3,6,9
- 15 11. needs assessment/ or risk assessment/
- 16 12. ((client\$ or clinical\$ or consumer\$ or need\$ or patient\$ or psychiatric or
- 17 psychological or psychosocial or psycho social or risk or service user\$
- 18 or therapeutic) adj2 (assess\$ or evaluat\$)).ti,ab.
- 19 13. (((assess\$ or predict\$ or risk\$) adj2 (form\$1 or checklist\$ or check list\$
- 20 or index\$ or indices or interview\$ or instrument\$ or inventor\$ or
- 21 item\$1 or measure\$ or psychometric\$ or question\$ or scale\$ or score\$
- 22 or scoring or self report\$ or subscale\$ or test\$ or tool\$)) or
- 23 (comprehensive adj (assessment\$ or evaluation\$))).ti,ab.
- 24 14. (adult suicidal ideation questionnaire or asiq or (beck depression
- 25 inventory or bdi) or (beck hopelessness scale or bhs) or ((beck scale
- 26 adj2 suicide ideation) or bsi) or ((brief reasons adj2 living inventory) or
- 27 brfl) or (brief symptom inventory or bsi) or ((college student reasons
- 28 adj2 living inventory) or csrli or csr li) or ((edinburgh risk adj2
- 29 repetition scale) or errs) or (firestone assessment adj2 self-destructive
- 30 thoughts) or ((global clinical assessment) or gca) or ((hamilton
- 31 depression rating scale) or hdrs) or ((hamilton rating scale adj2
- 32 depression) or hamd or ham d or hrsd or hrs d) or ((intersept scale adj2
- 33 suicidal thinking) or isst) or lethality scale\$ or (life satisfaction scale or
- 34 ls scale) or lifetime parasuicide count or ((linehan reasons adj2 living
- 35 inventory) or lrfl) or ((manchester self harm rule) or mshr) or
- 36 ((modified scale adj2 suicide ideation) or mssi) or (parasuicide history
- 37 interview or phi) or ((quiz adj2 depression adj2 suicide adj2 later life)
- 38 or qdssl) or (reasons adj2 living inventory) or ((reasons adj2 living scale
- 39 adj2 older adult questionnaire) or rfloa or rfl oa) or ((reasons adj2 living
- 40 scale adj2 younger adult questionnaire) or rflya or rfl ya) or risk rescue
- 41 rating or ((scale adj2 suicide ideation) or ssi) or (self-inflicted injury
- 42 severity form or siisf or sii sf) or (self-monitoring suicide ideation scale
- 43 or smsis of sms is) or (suicidal behaviors interview or sbi) or (suicidal
- 44 ideation questionnaire or siq) or (suicidal ideation screening
- 45 questionnaire or sisq or sis q) or (suicidal intent scale or sis) or ((suicide
- 46 assessment scale) or suas) or (suicide behaviors questionnaire or sbq)

1 or (suicide intervention response inventory or siri) or (suicide opinion
2 questionnaire or soq) or (suicide potential rating scale or suicide
3 lethality scale or spls or spl s) or (suicide probability scale or sps) or
4 (suicide status form or ssf) or ((symptom driven diagnostic system adj2
5 primary care) or sddspc or sdds pc) or ((positive adj2 negative suicide
6 ideation inventory) or pansi)).ti,ab.

7 15. or/11-14

8 16. or/10,15

9

10

11 ***d) Self management and/or harm minimisation***

12

13 Medline - Ovid SP interface

14

15 *For people who self-harm, does the provision of self management and/or harm*
16 *minimisation strategies, compared with no treatment or treatment as usual, improve*
17 *outcomes?*

18

19 1. self care/

20 2. ((self adj (care or instruct\$ or manag\$ or monitor\$ or regulat\$ or
21 reinforc\$ or re inforc\$)) or selfcare or selfinstruct\$ or selfmanag\$ or
22 selfmonitor\$ or selfregulat\$ or (minimal adj (contact or guidance)) or
23 (mutual adj (help or aid or support\$))).ti,ab.

24 3. harm reduction/ or risk management/ or risk reduction behavior/

25 4. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or
26 overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$
27 or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or
28 selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$
29 or suicid\$) adj2 (minimi\$ or reduc\$)).ti,ab.

30 5. ((autoaggress\$ or auto aggress\$ or automutilat\$ or mutilat\$ or cutt\$ or
31 overdose\$ or (self adj2 cut\$) or selfdestruct\$ or destruct\$ or selfharm\$
32 or harm\$ or selfimmolat\$ or immolat\$ or selfinflict\$ or inflict\$ or
33 selfinjur\$ or injur\$ or selfmutilat\$ or mutilat\$ or selfpoison\$ or poison\$
34 or suicid\$) adj4 (((decreas\$ or diminish\$ or fall\$ or fell or less\$ or limit\$
35 or low or lower\$) adj2 risk\$) or minimi\$ or reduc\$) adj8 (approach\$ or
36 communicat\$ or counsel\$ or educat\$ or instruct\$ or interven\$ or learn\$
37 or manag\$ or module\$ or network\$ or program\$ or psychoanaly\$ or
38 psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$ or taught or
39 teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or
40 work shop\$)).ti,ab.

41 6. ((advice\$ or advis\$ or deal\$ or instruct\$ or educat\$ or learn\$ or taught
42 or teach\$) adj8 (injur\$ or scar\$ or wound\$)).ti,ab.

43 7. (((advice\$ or instruct\$ or educat\$ or learn\$ or taught\$ or teach\$) adj3
44 risk\$)) or ((advice\$ or advis\$ or discuss\$ or educat\$ or learn\$ or
45 taught\$ or teach\$) adj8 risk\$ adj8 (autoaggress\$ or auto aggress\$ or
46 automutilat\$ or mutilat\$ or cutt\$ or overdose\$ or (self adj2 cut\$) or
47 selfdestruct\$ or destruct\$ or selfharm\$ or harm\$ or selfimmolat\$ or

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- 1 immolates or self-inflicts or inflicts or self-injures or injures or self-mutilates
2 or mutilates or self-poisons or poisons or suicides)).ti,ab.
- 3 8. hotlines.sh.
- 4 9. (call in or call line or call line or help line or helpline or hotline or
5 hot line or phone in or phone in or (caller\$1 adj3 (intervenes or
6 program or therapy or treat)) or (talk\$ adj2 friend) or ((phone or
7 telephone) adj2 support)).ti,ab.
- 8 10. relaxation/ or relaxation therapy/
- 9 11. (relaxation or ((autogen or relax) adj5 (apply or applied or approach
10 or assist or coach or educate or help or imagery or instruct or
11 intervenes or learn or manage or modify or program or seminar or
12 strategy or support or teach or technique or therapy or train or
13 treat or workshop or work shop)) or relaxed state or ((breath or
14 movement or respiratory or relax) adj2 (exercise or intervenes or
15 physiotherapy or technique or therapy or train)) or ((control?ed or
16 deep) adj breathing)).ti,ab.
- 17 12. ((replacement or substitute) adj3 (approach or educate or instruct or
18 intervenes or learn or manage or network or program or promote or
19 rehab or strategy or taught or teach or technique or therapy or
20 train or treat or workshop or work shop)).ti,ab.
- 21 13. (giggle or humor or laugh or laughter).ti,ab.
- 22 14. ((positive adj2 (emotion or therapy or think or psycho)) or
23 (emotion adj2 (cope or coping or psychotherapy or therapy))).ti,ab.
- 24 15. (damages adj2 limit).ti,ab.
- 25 16. (manages risk or (positive adj2 risk adj2 take) or (relation adj2
26 secur)).ti,ab.
- 27 17. (comforts or distractions or (((divert adj2 attention) or distract) adj5
28 (automutilates or mutilates or cuts or overdose or (self adj2 cut) or
29 self-destructs or destructs or self-harms or harms or self-immolates or
30 immolates or self-inflicts or inflicts or self-injures or injures or self-mutilates
31 or mutilates or self-poisons or poisons or suicides)).ti,ab.
- 32 18. (ice or ice cube or marker pen or pillow\$1 or pinch or pinching or
33 ((elastic or rubber) adj band) or toothbrush or tooth brush or (take
34 adj2 (bath or shower)) or ((clean or sterile) adj2 (cut or
35 instrument))).ti,ab.
- 36 19. (goal adj2 set).ti,ab.
- 37 20. (diary or diaries).ti,ab.
- 38 21. therapeutic contract.ti,ab.
- 39 22. ((cope or coping) adj3 (approach or assist or coach or educate or
40 help or imagery or instruct or intervenes or learn or manage or
41 modify or program or seminar or strategy or support or teach or
42 technique or therapy or train or treat or workshop or work
43 shop)).ti,ab.
- 44 23. (risk adj2 (minimize or reduce)).ti,ab.
- 45 24. creativeness/ or exercise/ or exp recreation/

- 1 25. (active living or bicycling or (cycling not rapid cycling) or gardening or
2 ((a?robic\$ or physical\$) adj (activit\$ or agil\$ or educat\$ or fitness\$)) or
3 hobby or hobbies or kinesiotherap\$ or kinesitherap\$ or recreation\$ or
4 running or sport\$ or swimming or tidying or walking or yoga).ti,ab.
5 26. community networks/ or friends/ or group processes/ or peer group/
6 or self help groups/
7 27. ((support\$ adj (based or cent\$ or focus?ed)) or (support\$ adj2
8 (approach\$ or educat\$ or friend\$ or family or instruct\$ or interven\$ or
9 learn\$ or module\$ or network\$ or peer\$1 or program\$ or strateg\$ or
10 technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$))
11 or ((community or emotion\$ or network\$ or organi?ation\$ or peer\$)
12 adj2 support\$) or (network\$ adj2 (discuss\$ or exchang\$ or interact\$ or
13 meeting\$))).ti,ab.
14 28. exp consumer health information/ or "patient education as topic"/
15 29. ((health adj2 (educat\$ or informat\$ or promot\$)) or ((adult\$ or client\$
16 or consumer\$ or inpatient\$ or outpatient\$ or participant\$ or patient\$ or
17 people or user\$) adj4 (educat\$ or knowledge or information\$ or
18 promot\$))).ti,ab.
19 30. or/1-29
20
21

22 *e) Psychosocial interventions*

23
24 *For people who self-harm, do psychosocial interventions (compared with no treatment*
25 *or other interventions) improve outcomes? What are the associated adverse effects?*
26

27 General psychotherapy terms

- 28
29 1. psychotherapy/ or adaption, psychological/ or psychotherapy, brief/
30 2. (psychotherap\$ or psycho therap\$ or psychotherapeutic or
31 ((humanistic or opportunistic or psychologic\$) adj3 (approach\$ or
32 assist\$ or coach\$ or educat\$ or instruct\$ or interven\$ or manag\$ or
33 module\$ or program\$ or rehab\$ or strateg\$ or support\$ or technique\$
34 or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)) or
35 ((integrated or multimodal or multi modal) adj2 therap\$) or ((brief or
36 short term or shortterm or timelimited or time limited) adj2
37 (intervention\$ or program\$ or solution\$ or therap\$ or treat\$)).tw.
38

39 Interpersonal therapy

- 40
41 3. interpersonal relations/ and (th.fs. or (psychotherap\$ or therap\$ or
42 treatment).hw.)
43 4. (((interpersonal\$ or inter personal\$ or interrelation\$ or inter relation\$)
44 adj5 (analy\$ or approach\$ or assist\$ or coach\$ or communicat\$ or
45 counsel\$ or educat\$ or help\$ or instruct\$ or interven\$ or learn\$ or
46 manag\$ or module\$ or network\$ or program\$ or psychoanaly\$ or
47 psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$ or teach\$ or

1 technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$))
2 or ((interpersonal\$ or inter personal\$ or interrelation\$ or inter
3 relation\$) adj5 (deficit\$ or difficult\$ or instab\$ or issue\$ or problem\$ or
4 unstab\$) adj5 (analy\$ or approach\$ or assist\$ or coach\$ or
5 communicat\$ or counsel\$ or educat\$ or help\$ or instruct\$ or interven\$
6 or learn\$ or manag\$ or module\$ or network\$ or program\$ or
7 psychoanaly\$ or psychotherap\$ or rehab\$ or skill\$ or strateg\$ or
8 support\$ or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or
9 workshop\$ or work shop\$)) or ipsst or ipsrt or (ipt not ipth) or
10 (intermittent preventive adj (therap\$ or treatment\$)) or ((interpersonal\$
11 or inter personal\$) adj2 social rhythm\$)).ti,ab.

12

13 Problem solving

14

- 15 5. problem solving/
16 6. (problem\$ adj3 (collaborat\$ or cope or coping or counsel\$ or help\$ or
17 manag\$ or program\$ or re mediat\$ or remediat\$ or resolution\$ or
18 resolv\$ or skill\$ or solv\$ or solution\$ or support\$ or technique\$ or
19 therap\$ or treat\$)).ti,ab.

20

21 Behaviour therapy/CBT

22

- 23 7. behavior therapy/ or psychotherapy, rational emotive/ or (self care/
24 and (cognit\$ or behavio?r\$ or metacognit\$ or recover\$).tw,hw.)
25 8. (((cognit\$ or behavio?r\$ or metacognit\$) adj3 (analy\$ or interven\$ or
26 modif\$ or program\$ or psychotherap\$ or restructur\$ or retrain\$ or
27 technique\$ or therap\$ or train\$ or treat\$)) or behavio?r\$ activat\$ or cbt
28 or selfinstruct\$ or selfmanag\$ or selfattribut\$ or (self\$ adj (instruct\$ or
29 manag\$ or attribution\$)) or (rational\$ adj3 emotiv\$) or (rational adj
30 (living or psychotherap\$ or therap\$)) or (ret adj (psychotherap\$ or
31 therap\$)) or rebt or (active directive adj (psychotherap\$ or
32 therap\$))).tw.

33

34 Psychodynamic interventions

35

- 36 9. exp psychoanalytic therapy/ or psychoanalysis/
37 10. (free association or psychoanal\$ or psycho anal\$ or psychodynamic\$ or
38 psycho dynamic\$ or transference or ((analytic or dynamic\$) adj3
39 (approach\$ or assist\$ or coach\$ or communicat\$ or counsel\$ or educat\$
40 or instruct\$ or interven\$ or learn\$ or manag\$ or modif\$ or module\$ or
41 network\$ or program\$ or psychotherap\$ or rehab\$ or short term or
42 skill\$ or strateg\$ or support\$ or teach\$ or technique\$ or therap\$ or time
43 limited or train\$ or treat\$ or workshop\$ or work shop\$)) or ((dream or
44 psychologic or self transactional) adj anal\$) or b app\$1).tw.

45

46 Multi-systematic therapy

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11. ((multisystemic or systemic) adj2 (interven\$ or therap\$ or treat\$)).ti,ab.

Crisis management

12. community health nursing/ or community health services/ or community mental health services/ or community-institutional relations/ or exp community psychiatry/ or crisis intervention/ or emergency medical services/ or emergency services, psychiatric/ or exp emergency service, hospital/ or mobile health units/ or exp preventive health service/

13. ((time adj5 limit\$) or (hospital\$ adj5 (diversion or alternative\$)) or ((acute or cris\$ or emergenc\$ or intensive\$ or mobile) adj5 (care\$ or manag\$ or interven\$ or treat\$ or therap\$ or management\$ or model\$ or program\$ or team\$ or service\$ or base\$1))).tw.

Counselling

14. exp counseling/

15. (counsel\$ or (((client\$ or person) adj2 (centred or centered or focus?ed)) or non directive\$ or nondirective\$ or rogerian) adj5 (approach\$ or assist\$ or coach\$ or communicat\$ or counsel\$ or educat\$ or help\$ or instruct\$ or interven\$ or learn\$ or manag\$ or module\$ or network\$ or program\$ or psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$ or teach\$ or technique\$ or therap\$ or train\$ or treat\$ or workshop\$ or work shop\$)) or pastoral care or ((individual or personal or talk\$) adj (psycho\$ or therap\$)).ti,ab.

Dialectic

16. dialectic\$.ti,ab.

Postcards

17. postal service/

18. (postcard\$ or post card\$ or (contact\$ adj3 post\$)).ti,ab.

Emergency cards

19. (emergenc\$ adj2 card\$).ti,ab.

Group therapy/peer support groups

20. community networks/ or friends/ or group processes/ or peer group/ or exp psychotherapy, group/ or social support/

1 21. (((group\$1 or support\$) adj (based or cent\$ or focus?ed)) or (group\$1
2 adj3 (advocacy or approach\$ or coach\$ or educat\$ or instruct\$ or learn\$
3 or module\$ or network\$ or participat\$ or program\$ or psychoanaly\$ or
4 psychotherap\$ or skill\$ or strateg\$ or support\$ or teach\$ or train\$ or
5 workshop\$ or work shop\$)) or (support\$ adj3 (approach\$ or educat\$ or
6 instruct\$ or interven\$ or learn\$ or module\$ or network\$ or program\$
7 or psychoanaly\$ or psychotherap\$ or strateg\$ or technique\$ or therap\$
8 or train\$ or treat\$ or workshop\$ or work shop\$)) or (groupwork or
9 (group adj2 work)) or ((emotion\$ or network\$ or organi?ation\$ or
10 peer\$) adj2 support\$) or ((group\$ or network\$ or peer\$1) adj2 (discuss\$
11 or exchang\$ or interact\$ or meeting\$))).ti,ab.

12

13 Family interventions

14

15 22. couples therapy/ or family therapy/ or marital therapy/
16 23. (conjoint therap\$ or family responsive or family relation\$ or ((couples
17 or family or guardian\$ or marital or marriage\$ or mother\$ or father\$ or
18 parent\$) adj (based or cent\$ or focus?ed or intervention\$ or therap\$ or
19 treatment\$)) or ((couples or family or guardian\$ or marital or
20 marriage\$ or mother\$ or father\$ or parent\$) adj3 (advocacy or
21 approach\$ or assist\$ or coach\$ or communicat\$ or counsel\$ or educat\$
22 or help\$ or instruct\$ or learn\$ or module\$ or network\$ or participat\$ or
23 program\$ or psychotherap\$ or rehab\$ or skill\$ or strateg\$ or support\$
24 or teach\$ or train\$ or workshop\$ or work shop\$)) or ((couples or family
25 or guardian\$ or marital or marriage\$ or mother\$ or father\$ or parent\$)
26 adj (discuss\$ or exchang\$ or interact\$ or meeting\$))).tw.

27

28 Self help

29

30 24. self administration/ or self care/ or self help/ or self help groups/
31 25. ((self adj (administer\$ or care or change or directed or help\$ or
32 instruct\$ or manag\$ or monitor\$ or regulat\$ or reinforc\$ or re inforc\$))
33 or selfhelp\$ or smart recover\$ or (minimal adj (contact or guidance)) or
34 helpseek\$ or (help\$ adj2 seek\$) or (mutual adj (help or aid or
35 support\$))).ti,ab.

36

37 Computer based interventions

38

39 26. telemedicine/ or therapy, computer assisted/
40 27. attitude to computers/ or audiovisual aids/ or computer literacy/ or
41 computer user training/ or computer-assisted instruction/ or
42 computing methodologies/ or decision support systems, clinical/ or
43 hotlines/ or information systems/ or medical informatics computing/
44 or medical informatics/ or multimedia/ or telemedicine/ or exp
45 audiovisual aids/ or exp computer systems/ or exp decision making,

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- 1 computer assisted/ or exp optical storage devices/ or exp software/ or
2 exp telecommunications/ or comput\$.hw.
- 3 28. (etherap\$ or e therap\$ or telehealth or tele health).ti,ab.
- 4 29. ((selfharm or self harm) adj3 (package\$ or program\$)).ti,ab.
- 5 30. (e communication\$ or ecommunication\$ or e consult\$ or econsult\$ or e
6 visit\$ or evisit\$ or e therap\$ or etherap\$ or telehealth or tele
7 health).ti,ab.
- 8 31. ((audio\$ or cd\$1 or cd rom or cdrom or computer\$ or cyber\$ or digital
9 assistant\$ or dvd or electronic\$ or floppy or handheld or hand held or
10 information or interactiv\$ or internet or mobile or multimedia or multi
11 media or online or palmtop or palm top or pc\$1 or pda or pdas or
12 personal digital or phone\$ or sms\$1 or telephone\$ or text or texts or
13 texting or video\$ or virtual or web\$ or www) adj5 (advocacy or
14 approach\$ or coach\$ or discussion or educat\$ or exchang\$ or guide\$1
15 or help\$ or instruct\$ or interact\$ or interven\$ or learn\$ or manag\$ or
16 meeting\$ or module\$ or network\$ or online or participat\$ or program\$
17 32. or psychoanaly\$ or psychotherap\$ or rehab\$ or retrain\$ or re train\$ or
18 self guide\$ or self help or selfguide\$ or selfhelp or skill\$ or strateg\$ or
19 support\$ or teach\$ or technique\$ or telephone\$ or therap\$ or train\$ or
20 treat\$ or work shop\$ or workshop\$)).ti,ab.
- 21 33. ((audio\$ or cd\$1 or cd rom or cdrom or computer\$ or cyber\$ or digital
22 assistant\$ or dvd or electronic\$ or floppy or handheld or hand held or
23 information or interactiv\$ or internet or mobile or multimedia or multi
24 media or online or palmtop or palm top or pc\$1 or pda or pdas or
25 personal digital or phone\$ or sms\$1 or telephone\$ or text or texts or
26 texting or video\$ or virtual or web\$ or www) adj2 (assist\$ or
27 based)).ti,ab.
- 28 34. ((audio\$ or cd\$1 or cd rom or cdrom or computer\$ or cyber\$ or digital
29 assistant\$ or dvd or electronic\$ or floppy or handheld or hand held or
30 interactiv\$ or internet or mobile or multimedia or multi media or
31 online or palmtop or palm top or pc\$1 or pda or pdas or personal
32 digital or phone\$ or sms\$1 or telephone\$ or text or texts or texting or
33 video\$ or virtual or web\$ or www) adj5 (aid or aided or appointment\$
34 or booking\$ or communicat\$ or consult\$ or deliver\$ or feedback or
35 forum or guided or input\$ or interactiv\$ or letter\$ or messag\$ or
36 referral\$ or remind\$ or send\$ or transfer\$ or transmi\$ or visit\$)).ti,ab.
- 37 35. ((audio\$ or cd\$1 or cd rom or cdrom or computer\$ or cyber\$ or digital
38 assistant\$ or dvd or electronic\$ or floppy or handheld or hand held or
39 information or interactiv\$ or internet or mobile or multimedia or multi
40 media or online or palmtop or palm top or pc\$1 or pda or pdas or
41 personal digital or phone\$ or sms\$1 or telephone\$ or text or texts or
42 36. texting or video\$ or virtual or web\$ or www) adj5 group\$).ti,ab.
- 43 37. ((client\$ or consumer\$ or inpatient\$ or outpatient\$ or patient\$) adj5
44 (audio\$ or cd\$1 or cd rom or cdrom or computer\$ or cyber\$ or digital
45 assistant\$ or dvd or electronic\$ or floppy or handheld or hand held or
46 interactiv\$ or internet or mobile or multimedia or multi media or

1 online or palmtop or palm top or pc\$1 or pda or pdas or personal
2 digital or phone\$ or sms\$1 or telephone\$ or text or texts or texting or
3 video\$ or virtual or web\$ or www)).ti,ab.
4 38. ((client\$ or consumer\$ or inpatient\$ or outpatient\$ or patient\$ or health
5 or information or web or internet) adj3 portal\$).ti,ab.
6

7 Case management/ Assertive outreach
8

9 39. (((case or care) adj5 management) or (care adj5 program\$ adj5
10 approach\$) or (assertive adj5 community adj5 treatment) or (training
11 adj5 community adj5 living) or (madison adj5 model\$)).ti,ab,hw. or
12 (cpa or pact or tcl).tw.
13

14 Respite care
15

16 40. respite care/
17 41. (daycare or day care or respite\$ or ((alleviat\$ or decreas\$ or less\$ or
18 limit\$ or lower\$ or prevent\$ or reduce\$ or relief or relieve) adj5
19 burden\$ adj5 (carer\$1 or caregiver\$ or care giv\$ or custodian\$ or
20 guardian\$ or father\$ or mother\$ or parent\$ or stepparent\$)) or ((carer\$
21 or care giver\$ or care giv\$) adj2 (assist\$ or help\$ or intervention\$ or
22 network\$ or program\$ or rehab\$ or support\$ or therap\$)).ti,ab.
23

24 42. or/1-41
25
26

27 *f) Pharmacological interventions*
28

29 *For people who self-harm, do drug treatments improve outcomes? What are the*
30 *associated adverse effects?*
31

32 Analgesics
33

34 1. exp analgesics/ or exp salicylic acids/ or (ana?lges\$ or salicyl\$).ti,ab.
35 2. (acetylsalicylic acid or 2 acetoxybenzoate or acenterine or acesal or
36 acetan or acetard or acetyl or acetilum or acetonyl or acetophen or
37 acetosal or acetosalicylic acid or acetosalin or acetosalum or acetyl
38 salicylate or acetyl salicylic acid or acetylic salicylic acid or acetylin or
39 acetylo or acetylon or acetylosalicylic acid or acetylsal or
40 acetylsalicyclic acid or acetylsalicyl or acetylsalicylate or
41 acetylsalicylate strontium or acetylsalicylic acid or acetylsalicyc acid or
42 acetylsalicyclic acid or acetysal or acidulatum or acidum acetyl
43 salicylicum or acidum acetylosalicylicum or acidum acetylsalicylicum
44 or acylpyrin or acylpyrine or acytosal or adiro or alabukun or alasil or
45 alka seltzer or alkaspirin or aloxiprimum or anopyrin or arthralgyl or
46 asaflow or asaphen or aspergum or aspirgran or aspirin or aspirina or

- 1 aspirine or aspirinine or aspisol or aspro or asrivo or asteric or astrix or
 2 bebesan or biprin or boxazin or breoprin or bufferin or cafenol or
 3 catalgine or catalgix or cemerit or cemirit or claradin or claragine or
 4 colfarit or colfarit or contrheuma or contrheuma retard or daga or
 5 darosal or depot aspirin or dispirin or dispril or dolean or easprin or
 6 ecotrin or egalgic or emocin or empirin or encaprin or endosprin or
 7 endosprin or entericin or enterosarine or enterospirine or entrophen or
 8 euthermine or extren or genasprin or godamed or gotosan or helicon or
 9 infatabs a or istopirin or istopyrine or ivepirine or juvepirine or kilios
 10 or kinderaspirin or magnecyl or measurin or mejoral or micristin or
 11 micristin or micropyryn or mikristin or miniasal or mycristin or nu seal
 12 or nuseals or ortho acetoxybenzoate or ortho acetoxybenzoic acid or
 13 ortho acetyloxybenzoate or ortho acetyloxybenzoic acid or ostoprin or
 14 pancemol or para acetylsalicylic acid or paracin or paynocil or pengo
 15 or polopirin or polopiryra or polopiryra or premaspin or primaspan
 16 or pyronoval or reumyl or rhodine or rhonal or salacetin or salacetogen
 17 or saletin or sargepirine or slow release aspirin or sodium
 18 acetylsalicylate or sodium bicarbonate acetyl salicylate or sodium
 19 bicarbonate acetylsalicylate or soldral or solprin or solpyron or
 20 solucetyl or solupsa or solupsan or super tru or tapal or temagin or
 21 treupahlin or treuphalin or turivital or verin or vitalink or xaxa or
 22 zorprin).ti,ab.
- 23 3. alfentanil/or (alfentanil or alfenta or alfentanil or alfentanil
 24 hydrochloride or alfentanyl or alfentanyl or fanaxal or limifen or
 25 rapifen).ti,ab.
- 26 4. (almotriptan or almogran or almotriptan malate or axert).ti,ab.
- 27 5. (buprenorphin\$ or buprenex or buprex or finibron or lepetan or prefin
 28 or suboxone or subutex or temgesic or transtec).ti,ab.
- 29 6. caffeine/or caffeine\$.ti,ab.
- 30 7. cannabis/or (cannabis or cannabi or cannabis or ganja or ganjas or
 31 hemp or hems or marihuana or marihuanas or marijuana or
 32 marijuanas or opiate).ti,ab.
- 33 8. (cocodamol or acetaminophen plus codeine phosphate or empracet or
 34 hypertussin or lindilane or nedolon or panadeine or paracodal or
 35 percogesic with codeine or talvosilen or treuphadol plus).ti,ab.
- 36 9. (codeine phosphate or ardinex or codein phosphate or codeine or
 37 codeine phosphate or codicompren retard or colrex compound or
 38 galcodeine or isocodeine or kodein or n methylmorphine or tricodein or
 39 tussispect).ti,ab.
- 40 10. (codydramol or codidramol).ti,ab.
- 41 11. cyclizine/or (cyclizine or collox or cyclizine or marazine or marezine or
 42 marzine or neo devomit or valoid).ti,ab.
- 43 12. dextromoramide/or (dextromoramide or d moramide or dextro
 44 moramide or dextromoramide or dextromoramine or dimorlin or d-
 45 moramide or jetrium or moramide or palfium or palfium or palphium
 46 or pyrrolamidol or pyrrolamidole or pyrroloamidol).ti,ab.

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- 1 13. dextropropoxyphene/ or (co proxamol or coproxamol or cosalgesic or d
2 propoxyphene or darvon or dextropropoxyphene or dantalvic or
3 distalgesic or d-propoxyphene or dystalgesic or paradex or
4 propoxyphene).ti,ab.
- 5 14. (dihydrocodeine or cis dihydrocodeine or codhydrin or codhydrine or
6 codicontin or cohydrin or dehadodin or dh codeine or didrate or
7 dihydrin or dihydroneopine or drocode or hydrocodeine or
8 hydrocodin or nadein or nadeine or napacodin or novicodin or
9 paracodein or paracodin or paramol or parzone or rapacodin or
10 remedacen or tiamon mono or trans dihydrocodeine).ti,ab.
- 11 15. (dipipanone or pipadone or piperidyl amidone).ti,ab.
- 12 16. eletriptan.ti,ab.
- 13 17. ergotamine/ or (ergate or ergomar or ergostat or ergotamine tartrate or
14 ergotaminetartras or exmigra or femergin or gynergen or lingraine or
15 medihaler ergotamine or relpax or virdex or wigrettes).ti,ab.
- 16 18. fentanyl/ or (fentanyl\$ or duragesic or duragesic or durogesic or
17 fentamyl or fentanest or fentanil or fentora or fetnanyl or ionsys or
18 leptanal or phentanyl or sublimaze or transfenta).ti,ab.
- 19 19. (frovatriptan allegro or frova or migard or miguard).ti,ab.
- 20 20. (heroin\$1 or acetomorphine or diacephine or diacetyl morphine or
21 diacetylmorphine or diagesil or diamorf or diamorphine or diaphorin
22 or morphacetin).ti,ab.
- 23 21. (hydromorphone or biomorphyl or cofalaudid or dihydromorphinone
24 or dihydromorphone or dilaudid or dimorphone or hydromorphinone
25 hydrochloride hydromorphon or hydromorphone or hymorphan or
26 laudacon or laudaconum or novolaudon or palladon or palladone or
27 palladone or semcox or sophidone).ti,ab.
- 28 22. isometheptene mucate.ti,ab.
- 29 23. ketorolac\$.sh. or (droal or isometheptenemucate or isometheptine
30 mucate or ketocol or ketorolac or midrin or taradyl or toradol or
31 toratex).ti,ab.
- 32 24. meptazinol/ or (meptazinol or meptazinol or meptid).ti,ab.
- 33 25. exp methadone/ or (methadone\$ or adanon or adanon hydrochloride
34 or algidon or algolysin or algoxale or althose or amidon or amidone or
35 amidosan or anadon or biodone or butalgin or deamin or depridol or
36 daminon or dianone or dolafin or dolamid or dolesone or dolophine
37 or dolophine hydrochloride or dorex or dorexol or fenadon or
38 heptadon or heptanon or ketalgin or mecodin or mepecton or
39 mephenon or metadol or metasedin or methaddict or methadose or
40 methex or miadone or moheptan or phenadon\$1 or phymet or
41 physepton or physeptone or pinadone or polamidon or polamivet or
42 polamivit or sinalgin or symoron).ti,ab.
- 43 26. methysergide/ or (methysergide\$ or deseril or desernil sandoz or desril
44 or dimethylergometrin or dimethylergometrine or dimethylergonovine
45 or methisergid or methisergide or methyl sergide or

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- 1 methylmethylegonovine or methylsergide or methysergid or
2 methysergide or sansert).ti,ab.
- 3 27. exp morphine/ or morphinans/ or (morphine or astramorph or avinza
4 or depodur or depomorphine or dolcontin or duramorph or
5 duramorple or kadian or kapanol or moraxen or morphia or
6 morphinesulfate or moscontin or ms contin or mst continus or mst
7 mundipharma or noceptin or oblioser or oramorph or roxanol or
8 sevredol or skenan lp).ti,ab.
- 9 28. exp naloxone/ or (naloxone or maloxone or nalaxone or nalone or
10 nalonee or narcan or narcanti or narcon or narvcam).ti,ab.
- 11 29. (naratriptan or amerge or naramig).ti,ab.
- 12 30. nefopam/ or (nefopam or acupan or ajan or fenazoxine or lenipan or
13 nocipan).ti,ab.
- 14 31. opiate alkaloids/ or opium/ or (opiate\$ or opioid\$ or opium).ti,ab.
- 15 32. (oxycodone or bionine or bionone or bolodorm or broncodal or
16 bucodal or cafacodal or cardanon or codenon or
17 dihydrohydroxydodeinone or dihydrone or dinarkon or endone or
18 eubine or eucodal or eucodale or eudin or eukdin or eukodal or
19 eumorphal or eurodamine or eutagen or hydrocodal or
20 hydroxycodoinoma or hydroxycodoinon or ludonal or medicodal or
21 narcobasina or narcobasine or narcosin or nargenol or narodal or
22 nucodan or opton or ossicodone or oxanest or oxicone or oxiconum or
23 oxikon or oxycodoinon or oxycodoinonhydrochloride or oxycodone or
24 oxycodonhydrochlorid or oxycodyl or oxycone or oxycontin or
25 oxygesic or oxykon or oxynorm or pancodine or pavinal or pronarcin
26 or remoxy or roxicodone or roxycodone or sinthiodal or stupenal or
27 tebodal or tekodin or thecodin or thecodin).ti,ab.
- 28 33. acetaminophen/ or (paracetamol or acetaminophen or acamol or
29 acephen or acetaco or acetamidophenol or acetaminophen or
30 algotropyl or anacin 3 or anacin3 or apap or datril or
31 hydroxyacetanilide or p-acetamidophenol or panadol or tylenol).ti,ab.
- 32 34. pentazocine/ or (pentazocine or dolapent or fortal or fortalgescic or
33 fortal or fortaline or fortwin or lexir or liticon or peltazon or
34 pentacozine or pentafen or pentagin or pentalgina or pentazocin or
35 pentozocine or perutagin or sosegon or sosigon or talioin or
36 talwin).ti,ab.
- 37 35. exp meperidine/ or (pethidine or algil or alodan or centralgin or
38 centralgine or demerol or dispadol or dolanquifa or dolantal or
39 dolantin or dolantine or dolargan or dolcontral or dolenal or dolestin
40 or dolin or dolocontral or doloneurin or doloneurotrat or dolor or
41 dolosa or dolosal or dolosan or dolsin or dolvanol or endolate or
42 isonipecaïn or isonipecaïne or l pethidine or lidol or lydol or mefedina
43 or mepadïn or meperiden or meperidin or meperidine or mephedine or
44 mepiridine or mialgin or pantalgïn or petadin or petantin or petantina
45 or pethanol or pethedine or pethidin or pethidine or petidin or

CONSULTATION DRAFT

- 1 phetidine or piridosal or sauteralgyl or simesalgina or supposal or
2 synlaudine).ti,ab.
- 3 36. (pizotifen or mosegor or sanmigran or sanomigran).ti,ab.
- 4 37. (rizatriptan or maxalt).ti,ab.
- 5 38. sumatriptan/ or (sumatriptan succinate or imigran or imiject or imitrex
6 or sumadol or sumigrene).ti,ab.
- 7 39. (tolfenamic acid or clotam or clotan or rocielyne or tolfedine or
8 tolfenamate).ti,ab.
- 9 40. tramadol/or (tramadol or adolonta or amadol or biodalgic or biokanol
10 or contramal or dolzam or jutadol or kontram xl or melanate or
11 mtwtramadol or nobligan or prontofort or ranitidin 1a pharma or
12 takadol or theradol or tiral or topalgic or tradol or tradolpuren or
13 tradonal or tralgiol or trama abz or trama dorsch or trama kd or
14 tramabeta or tramadin or tramadoc or tramadoldolgit or
15 tramadolhameln or tramadolium chloride or tramador or
16 tramadolratiopharm or tramadorsch or tramadura or tramagetic or
17 tramagit or tramake or tramal or tramex or tramundin or trasedal or
18 trodon or trondon or ultram or xymel 50 or zamudol or zumalgic or
19 zydol or zytram).ti,ab.
- 20 41. (zolmitriptan or ascotop or zomig or zomigon).ti,ab.
- 21 42. (zopiclone or amoban or imovance or imovane or ximovan or
22 zimovane or zoplicon).ti,ab.

Antidepressants

- 23
- 24
- 25
- 26 43. exp antidepressive agents, tricyclic/
27 44. (tricyclic\$ or tca\$1).ti,ab.
- 28 45. amitriptyline.sh. or (amitriptyl\$1 or amitryptil\$1 or amitryptin\$1 or
29 amitriptylin\$1 or amytriptil\$1 or amytriptyl\$1 or amytriptil\$1 or
30 adepress or adepril\$1 or ambivalon\$1 or amineurin\$1 or amidid\$1 or
31 amitril\$1 or amitrip or amitrol\$1 or anapsique or antitriptylin\$1 or
32 apoamitriptylin\$1 or damilen\$1 or damylen\$1 or domical\$1 or
33 elatrol\$1 or elavil\$1 or endep or enovil\$1 or etafon\$1 or etafon\$1 or
34 euplit\$1 or lantron\$1 or laroxal\$1 or laroxyl\$1 or lentizol\$1 or
35 novoprotect or proheptadien\$1 or redomex or sarboten retard or
36 saroten\$1 or sarotex or stelminal\$1 or sylvemid\$1 or syneudon\$1 or
37 teperin\$1 or terepin\$1 or triptafen\$1 or triptanol\$1 or triptizol\$1 or
38 triptyl or triptylin\$1 or tryptanol\$1 or tryptin\$1 or tryptizol\$1).ti,ab.
- 39 46. chlomidamine.sh. or (chlomidamin\$1 or chlorimidamin\$1 or
40 chlorimidamin\$1 or clomidamin\$1 or anafranil\$1 or anafranilin\$1 or
41 anafranil or domipramin\$1 or hydiphen\$1 or monochlorimidamin\$1
42 or monochlorimidamin\$1 or monochlorimidamin\$1).ti,ab.
- 43 47. dothiepin.sh. or (dothiepin\$1 or dosulepin\$1 or altapin\$1 or
44 depresym\$1 or dopress or dothep or idom or prothiaden\$1 or
45 prothiadien\$1 or prothiadin\$1 or protiaden\$1 or thaden).ti,ab.

CONSULTATION DRAFT

- 1 48. doxepin.sh. or (doxepin\$1 or adapin\$1 or apodoxepin\$1 or aponal\$1 or
2 co dox or curatin\$1 or depretran\$1 or desidox or doneurin\$1 or doxepia
3 or espadox or mareen or prudoxin\$1 or quitaxon\$1 or silenor or
4 sinepin or sinequan\$1 or sinquan\$1 or xepin\$1 or zonalon\$1).ti,ab.
- 5 49. imipramine.sh. or (imipramin\$1 or antideprin\$1 or berkomin\$1 or
6 chrytemin\$1 or deprimin or deprinol\$1 or depsonil or dynaprin or
7 eupramin or ia pram or imavate or imidobenzyl\$1 or imidol\$1 or
8 imipramid\$1 or imipramil or imiprex or imiprin\$1 or imizin\$1 or irmin
9 or janimin\$1 or melipramin\$1 or norchlorimipramin\$1 or norpramin\$1
10 or novopramin\$1 or presamin\$1 or pryleun\$1 or psychoforin\$1 or
11 psychoforin\$1 or servipramin\$1 or sk pramin\$1 or surplus or tofranil\$1
12 or trofanil\$1).ti,ab.
- 13 50. lofepramine.sh. or (lofepramin\$1 or lopramin\$1 or amplit\$1 or
14 deftan\$1 or feprapax or gamanil\$1 or gamonil\$1 or lomont or
15 lopramin\$1 or tymelyt).ti,ab.
- 16 51. mianserin.sh. or (mianserin\$1 or athymil\$1 or bolvidon\$1 or investig or
17 lantanon\$1 or lanthanon\$1 or lerivon\$1 or miaxan\$1 or norval or
18 serelan\$1 or tetramid\$1 or tolvin\$1 or tolvon\$1).ti,ab.
- 19 52. nortriptyline.sh. or (nortriptylin\$1 or acetexa or allegron\$1 or altilev or
20 atilev or avantyl or aventyl or desitriptylin\$1 or
21 desmethyramitriptylin\$1 or martimil\$1 or noramitriptylin\$1 or
22 norfenazin\$1 or noritren\$1 or norpress or nortrilen\$1 or nortryptilin\$1
23 or nortriptylin\$1 or pamelor or paxtibi or propylamin\$1 or psychostyl
24 or sens?val).ti,ab.
- 25 53. opipramol.sh. or (opipramol\$1 or dinsidon\$1 or ensidon\$1 or
26 eusidon\$1 or insidon\$1 or nisidan\$1 or oprimol or pramolan\$1).ti,ab.
- 27 54. trazodone.sh. or (trazodon\$1 or beneficat or deprax or desirel or
28 desyrel\$1 or molipaxin\$1 or pesyrel\$1 or rpragazon\$1 or pragmarel\$1
29 or pragmazon\$1 or thombran\$1 or thrombin\$1 or thrombran\$1 or
30 tombran\$1 or trasodon\$1 or trazolan\$1 or trazorel or trazon\$1 or
31 trialodine or tritico).ti,ab.
- 32 55. trimepramine.sh. or (trimepramin\$1 or trimeprimin\$1 or
33 trimepropimin\$1 or trimidura or trimineurin\$1 maleate or
34 trimipramin\$1 or trimoprimin\$1 or eldoral\$1 or herphonal\$1 or
35 trimineurin\$1 or novo tripramin\$1 or novotripramin\$1 or
36 nutrimipramin\$1 or rhotrimin\$1 or stangyl or surmontil\$1 or apo
37 trimip or apotrimip or herphonal\$1 or stangyl or surmontil\$1).ti,ab.
- 38 56. exp serotonin uptake inhibitors/
39 57. (ssri\$ or ((serotonin or 5 ht or 5 hydroxytryptamine) adj (uptake or
40 reuptake or re uptake) adj inhibit\$)).ti,ab.
- 41 58. citalopram.sh. or (citalopram or celexa or cipramil\$1 or cytalopram or
42 elopram or escitalopram or lexapro or nitalapram or sepram or
43 seropram).ti,ab.
- 44 59. (escitalopram or cipralex or lexapro or seroplex).ti,ab.
- 45 60. fluoxetine.sh. or (fluoxetin\$1 or fluctin\$1 or flunirin\$1 or fluoxifar or
46 prosac or prozac or prozamin or sarafem or symbyax).ti,ab.

- 1 61. fluvoxamine.sh. or (fluvoxamin\$1 or depromel\$1 or desiflu or dumirox
2 or faverin\$1 or fevarin\$1 or floxyfral\$1 or fluoxamin\$1 or fluoxamin\$1
3 or fluvoxadura or luvox).ti,ab.
- 4 62. (nefazadon\$1 or dutonin or nefadar or reseril\$1 or serzon\$1).ti,ab.
- 5 63. paroxetine.sh. or (paroxetin\$1 or aropax or deroxat or motivan\$1 or
6 paxil or pexeva or seroxat or tagonis).ti,ab.
- 7 64. sertraline.sh. or (sertralin\$1 or altrulin\$1 or aremis or besitran\$1 or
8 gladem or lustral\$1 or naphthylamin\$1 or sealdin\$1 or serad or
9 serlain\$1 or tresleen or zoloft).ti,ab.
- 10 65. exp antidepressive agents/ or exp monoamine oxidase inhibitors/
11 66. (antidepress\$ or anti depress\$ or maoi\$1 or ((adrenaline or amine or
12 mao or mono amin\$ or monoamin\$ or tyramin\$) adj2 inhibit\$)).ti,ab.
- 13 67. (agomelatin\$1 or melitor or thymanax or valdoxan\$1).ti,ab.
- 14 68. chlorprothixene.sh. or (chlorprothixen\$1 or aminasin\$1 or aminasin\$1
15 or aminazin\$1 or aminazin\$1 or ampliactil\$1 or amplictil\$1 or
16 ancholactil\$1 or chlopromazin\$1 or chlor pz or chlorbromasin\$1 or
17 chlorderazin\$1 or chlorderazin\$1 or chlorpromazin\$1 or
18 chlorpromanyl or chlorpromazin\$1 or chlorprotixen\$1 or clorderazin\$1
19 or clorpromazin\$1 or cloxan or contomin\$1 or elmarin\$1 or fenactil\$1
20 or hibanil\$1 or hibernal\$1 or hibernol\$1 or klorpromex or largactil\$1 or
21 largactyl or megaphen\$1 or neurazin\$1 or novomazin\$1 or
22 phenathyl\$1 or plegomazin\$1 or plegomazin\$1 or proma or
23 promacid\$1 or promactil\$1 or promapar or promazil\$1 or propaphen\$1
24 or propaphenin\$1 or prozil\$1 or psychozin\$1 or sanopron\$1 or
25 solidon\$1 or sonazin\$1 or taractan\$1 or taroctil\$1 or thor prom or
26 thorazen\$1 or thorazin\$1 or torazina or truxal or vegetamin a or
27 vegetamin b or wintamin\$1 or wintermin\$1 or zuledin\$1).ti,ab.
- 28 69. desvenlafaxine.sh. or (desvenlafaxin\$1 or o desmethylvenlafaxin\$1 or o
29 norvenlafaxin\$1 or pristiq).ti,ab.
- 30 70. (duloxetine\$1 or ariclaim or cymbalta or xeristar or yentreve).ti,ab.
- 31 71. fezolamin\$1.ti,ab.
- 32 72. (isocarboxacid\$1 or bmih or enerzer or isocarboazid\$1 or
33 isocarboxazid\$1 or marplan\$1 or marplon).ti,ab.
- 34 73. (mirtazapin\$1 or avanza or 6 azamianserin\$1 or lerivon\$1 or
35 remergil\$1 or remergon\$1 or remeron\$1 or tolvon\$1 or zispin).ti,ab.
- 36 74. moclobemide.sh. or (moclobemid\$1 or arima or aureorex or aurorix or
37 deprenorm or feraken\$1 or manerix or moclamid\$1 or moclix or
38 moclobamid\$1 or moclobeta or moclodura or moclonorm or
39 novomoclobemid\$1 or numoclobemid\$1 or rimoc).ti,ab.
- 40 75. phenelzine.sh. or (phenelzin\$1 or 2 phenethylhydrazin\$1 or 2
41 phenylethylhydrazin\$1 or benzylmethylhydrazin\$1 or beta
42 phenethylhydrazin\$1 or beta phenylethylhydrazine or fenelzin or
43 fenizin\$1 or mao rem or nardelzin\$1 or nardil\$1 or phenalzin\$1 or
44 phenethylhydrazin\$1 or phenylethylhydrazin\$1 or stinerval\$1).ti,ab.
- 45 76. (reboxetin\$1 or davedax or edronax or norebox or prolift or solvex or
46 vestra).ti,ab.

- 1 77. tranylcypromine.sh. or (tranylcypromin\$1 or
 2 phenylcyclopropylamin\$1 or dl trans 2 phenylcyclopropylamin\$1 or
 3 jatrosom\$1 or parmodalin\$1 or parnate or parniten\$1 or parnitin\$1 or
 4 trancilpromin\$1 or trancylpromin\$1 or trancylprominesulfate or
 5 tranilacipromin\$1 or trans 2 phenylcyclopropylamin\$1 or transamin\$1
 6 or tylciprin\$1).ti,ab.
 7 78. (venlafaxin\$1 or efexor or effexor or foraven or tifaxin or trevilor or
 8 venaxx or venlalic or winfex).sh,tw.
 9 79. exp serotonin uptake inhibitors/
 10 80. (snri\$ or ssnri\$ or ((noradrenalin or norepinephrine) adj serotonin adj
 11 (uptake or reuptake or re uptake) adj inhibitor\$) or (serotonin adj
 12 (noradrenalin or norepinephrine) adj (uptake or reuptake or re uptake)
 13 adj inhibitor\$)).ti,ab.
 14 81. tetracyclic\$.ti,ab.

15
 16 Antipsychotics

- 17
 18 82. exp antipsychotic agents/
 19 83. (antipsychotic\$ or anti psychotic\$ or (major adj2 (butyrophenon\$ or
 20 phenothiazin\$ or tranquil\$)) or neuroleptic\$).ti,ab.
 21 84. (amisulprid\$1 or aminosultoprid\$1 or amisulpirid\$1 or sertol\$1 or
 22 socian or solian).ti,ab.
 23 85. (aripiprazol\$1 or abilify or abilitat).ti,ab.
 24 86. (benperidol\$1 or anquil or benperidon\$1 or benzoperidol\$1 or
 25 benzperidol\$1 or frenactil\$1 or frenactyl or glianimon\$1 or
 26 phenactil\$1).ti,ab.
 27 87. chlorpromazine.sh. or (chlorpromazin\$1 or aminazin\$1 or chlorazin\$1
 28 or chlorderazin\$1 or contomin\$1 or fenactil\$1 or largactil\$1 or
 29 propaphenin\$1 or thorazin\$1).ti,ab.
 30 88. chlorprothixene.sh. or (chlorprothixen\$1 or aminasin\$1 or aminasin\$1
 31 or aminazin\$1 or aminazin\$1 or ampliactil\$1 or amplictil\$1 or
 32 ancholactil\$1 or chlompromazin\$1 or chlor pz or chlorbromasin\$1 or
 33 chlorderazin\$1 or chlorderazin\$1 or chloropromazin\$1 or
 34 chlorpromanyl or chlorpromazin\$1 or chlorprotixen\$1 or clorderazin\$1
 35 or clorpromazin\$1 or cloxan or contomin\$1 or elmarin\$1 or fenactil\$1
 36 or hibanil\$1 or hibernal\$1 or hibernol\$1 or klorpromex or largactil\$1 or
 37 largactyl or megaphen\$1 or neurazin\$1 or novomazin\$1 or phenathyl
 38 or plegomazin\$1 or plegomazin\$1 or proma or promacid\$1 or
 39 promactil\$1 or promapar or promazil\$1 or propaphen\$1 or
 40 propaphenin\$1 or prozil or psychozin\$1 or sanopron\$1 or solidon\$1 or
 41 sonazin\$1 or taractan\$1 or taroctil\$1 or thor prom or thorazen\$1 or
 42 thorazin\$1 or torazin\$1 or truxal or vegetamin a or vegetamin b or
 43 wintamin\$1 or wintermin\$1 or zuledin\$1).ti,ab.
 44 89. clozapine.sh. or (clozapin\$1 or alemoxan\$1 or azaleptin\$1 or clopine or
 45 clozaril\$1 or denzapin\$1 or dorval or dozapin\$1 or fazacllo or froidir or
 46 klozapol or lapenax or leponex or wander compound or zaponex).ti,ab.

CONSULTATION DRAFT

- 1 90. flupenthixol.sh. or (flupentixol\$1 or flupenthixol\$1 or depixol\$1 or
2 emergil\$1 or fluaxol\$1 or flupentixol\$1 or emergil\$1 or fluaxol\$1 or
3 piperazineethanol\$1 or viscoleo).ti,ab.
- 4 91. fluspirilene.sh. or (fluspirilen\$1 or fluspi or imap or kivat or redeptin\$1
5 or spirodiflamin\$1).ti,ab.
- 6 92. haloperidol.sh. or (haloperidol\$1 or aloperidin\$1 or bioperidolo or
7 brotopon or celenase or cerenace or dozic or duraperidol or einalon s or
8 eukystol or fortunans\$1 or haldol or halidol or haloneural\$1 or
9 haloperitol\$1 or halosten or keselan or linton or peluces or serenace or
10 serenase or siegoperidol\$1 or sigaperidol\$1).ti,ab.
- 11 93. methotrimeprazine.sh. or (levomepromazin\$1 or 2
12 methoxytrimeprazin\$1 or hirnamin\$1 or levo promazin\$1 or
13 levomeprazin\$1 or levopromazin\$1 or levoprom\$1 or mepromazin\$1
14 or methotrimeprazin\$1 or methotrimperazin\$1 or milezin\$1 or
15 minozinan\$1 or neozin\$1 or neuractil\$1 or neurocil\$1 or nirvan or
16 nosinan\$1 or nozinan\$1 or sinogan or tiscercin\$1 or tizercin\$1 or
17 tizertsin\$1 or veractil\$1).ti,ab.
- 18 94. (olanzapin\$1 or lanzac or midax or olansek or olzapin or rexapin or
19 zalasta or zolafren or zydis or zypadhera or zyprex\$1).ti,ab.
- 20 95. (paliperidon\$1 or 9 hydroxyrisperidon\$1 or invega).ti,ab.
- 21 96. paroxetine.sh. or (paroxetin\$1 or aropax or deroxat or motivan or
22 paxil\$1 or pexeva or seroxat or tagonis).ti,ab.
- 23 97. (pericyazin\$1 or aolept or neulactil\$1 or neuleptil\$1 or periciazin\$1 or
24 properciazin\$1 or propericiazin\$1).ti,ab.
- 25 98. perphenazine.sh. or (perphenazin\$1 or chlorperphenazin\$1 or
26 chlorpiprazin\$1 or chlorpiprozin\$1 or decentan\$1 or etaperazin\$1 or
27 ethaperazin\$1 or etrafon or fentazin\$1 or perfenazin\$1 or perfenazin\$1
28 or perferazin\$1 or perphenans\$1 or perphenezin\$1 or thilatazin\$1 or
29 tranquisan\$1 or triavail or trifalon\$1 or trilafan\$1 or trilafon\$1 or
30 trilifan\$1 or triliphan\$1).ti,ab.
- 31 99. pimozide.sh. or (pimozid\$1 or antalon\$1 or opiran\$1 or orap or
32 pimocid\$1 or pimorid\$1 or pinozid\$1).ti,ab.
- 33 100. prochlorperazine.sh. or (prochlorperazin\$1 or buccastem or capazin\$1
34 or chlormeprazin\$1 or chlorpeazin\$1 or chlorperazin\$1 or compazin\$1
35 or dicopal\$1 or emelent or kronocin\$1 or meterazin\$1 or metherazin\$1
36 or nipodal\$1 or phenotil or prochlor perazin\$1 or prochlorpemazin\$1
37 or prochlorperacin\$1 or prochlorperzin\$1 or prochlorpromazin\$1 or
38 proclorperazin\$1 or stemetil or stemzine or tementil\$1 or
39 temetil\$1).ti,ab.
- 40 101. promazine.sh. or (promazin\$1 or alofen\$1 or alophen\$1 or ampazin\$1
41 or amprazim\$1 or contractyl or delazin\$1 or esparin\$1 or lete or
42 liranol\$1 or neo hibernex or neuroplegil\$1 or piarin\$1 or prazin\$1 or
43 pro tan or promantin\$1 or promanyl\$1 or promilen\$1 or promwill or
44 protactil\$1 or protactyl\$1 or romthiazin\$1 or romtiazin\$1 or sediston\$1
45 or sinophenin\$1 or sparin\$1 or tomil or varophen\$1 or
46 verophen\$1).ti,ab.

CONSULTATION DRAFT

- 1 102. (quetiapin\$1 or ketipinor or quepin or seroquel or tienapin\$1).ti,ab.
2 103. risperidone.sh. or (risperidon\$1 or belivon\$1 or ridal or riscalin or
3 risolept or rispen or risperdal\$1 or sizodon).ti,ab.
4 104. (sertindol\$1 or indole or serdolect or serlect).ti,ab.
5 105. sulpiride.sh. or (sulpirid\$1 or abilit or aiglonyl\$1 or arminol\$1 or
6 bosnyl or deponerton\$1 or desisulpid\$1 or digton or dobren or
7 dogmatil\$1 or dogmatyl or dolmatil\$1 or eglonyl or ekilid or equilid or
8 guastil\$1 or isnamid\$1 or leboprid\$1 or levopraid or levosulpirid\$1 or
9 meresa or miradol\$1 or modal or neogama or pontirid\$1 or psicocen\$1
10 or sulfirid\$1 or sulp\$1 or sulperid\$1 or sulpitil\$1 or sulpivert or sulpor
11 or sulpyride or synedil\$1 or tepavil\$1 or vertigo meresa or vertigo
12 neogama or vipral).sh,tw.
13 106. trifluoperazine.sh. or (trifluoperazin\$1 or apotrifluoperazine\$1 or
14 calmazin\$1 or dihydrochlorid\$1 or eskazin\$1 or eskazin\$1 or eskazinyl
15 or fluoperazin\$1 or flupazin\$1 or jatroneural\$1 or modalina or
16 stelazin\$1 or terfluzin\$1 or terfluzin\$1 or trifluoperazid\$1 or
17 trifluoperazin\$1 or trifluoperzin\$1 or trifluoroperazin\$1 or
18 trifluorperacin\$1 or trifluperazin\$1 or triflurin\$1 or triftazin\$1 or
19 triftazinum or triphthazin\$1 or triphthasin\$1 or triphthazin\$1).ti,ab.
20 107. (zotepin\$1 or lodopin\$1 or losizopilon or nipolept or setous or
21 zoleptil).ti,ab.
22 108. clopenthixol.sh. or (zuclopenthixol\$1 or acuphase or clopenthixol\$1 or
23 clopixol or cisordinol\$1 or sedanxol\$1).ti,ab.
24

Lithium

- 25
26
27 109. lithium\$.sh. or (lithium\$1 or camcolit or candamid\$1 or carbolith or
28 carbolitium or cibalith s or contemnol\$1 or dilithium or eskalith or
29 hypnorex or li salt or limas or linthane or liskonium or liskonum or
30 litarex or lithane or lithiofor or lithionit or lithiophor or lithobid or
31 lithocarb or lithonate or lithotabs or maniprex or mesin or micalith or
32 neurolepsin or neurolithium or plenur or priadel or quilinormretard or
33 quilonorm or quilonum or teralithe or theralite or theralithe).ti,ab.
34

Benzodiazepines

- 35
36
37 110. exp benzodiazepines/
38 111. (benzo\$1 or benzodiazepin\$).ti,ab.
39 112. alprazolam.sh. or (alprazolam or alprox or apo alpraz or apoalpraz or
40 aprazolam\$1 or cassadan\$1 or esparon\$1 or helex or kalma or novo
41 alprazol\$1 or novoalprazol\$1 or nu alpraz or nualpraz or ralozam or
42 solanax or tafil\$1 or trunkimazin\$1 or valeans or xanax or xanor).ti,ab.
43 113. bromazepam.sh. or (bromazepam or anxyrex or bartul or bromalich or
44 bromaz 1a pharma or bromazanyl\$1 or bromazep von ct or durazanyl\$1
45 or lectopam\$1 or lexamil\$1 or lexatin\$1 or lexaurin\$1 or lexilium or

CONSULTATION DRAFT

- 1 lexomil\$1 or lexotan\$1 or lexotani1\$1 or lexotani1\$1 or normoc or
2 sintrogel\$1).ti,ab.
- 3 114. chlordiazepoxide.sh. or (chlordiazepoxid\$1 or methaminodiazepoxid\$1
4 or elenium\$1 or librium\$1 or chlozepid\$1 or ansiacal\$1 or
5 benzodiapin\$1 or cebrum\$1 or chlordiazepoxyd\$1 or
6 chlorodiazepoxid\$1 or clopoxid\$1 or contol\$1 or decacil\$1 or defobin\$1
7 or disarim\$1 or dizepin\$1 or dopoxid\$1 or droxol\$1 or eden psych or
8 elenium\$1 or elenum\$1 or equibral\$1 or kalmocaps or labican\$1 or
9 librelease or libritabs or librium or lipoxide or mesural\$1 or
10 metaminodiazepoxid\$1 or methaminodiazepoxid\$1 or mildmen\$1 or
11 mitran\$1 or multum\$1 or murcil\$1 or napoton\$1 or napoton\$1 or
12 novosed\$1 or psichial\$1 or psicosan\$1 or psicoterin\$1 or radepur or
13 reliberan\$1 or reposans 10 or risolid or seren vita or servium or
14 silibrin\$1 or sk lygen or sonimen\$1 or timosin\$1 or viansin\$1 or
15 viopsicol\$1).ti,ab.
- 16 115. (clobazam or chlorepin\$1 or clobazepam or clorepin\$1 or frisium or
17 noiafren\$1 or urbadan\$1 or urbanil\$1 or urbanyl).ti,ab.
- 18 116. clonazepam.sh. or (clonazepam or antelepsin\$1 or clonopin\$1 or
19 iktorivil\$1 or klonazepam or klonopin\$1 or landsen\$1 or
20 rivotril\$1).ti,ab.
- 21 117. clorazepate dipotassium.sh. or (clorazepat\$1 or carboxylic acid or
22 chlorazepat\$1 or chloroazepat\$1 or clorazepic acid or tranxen\$1 or
23 tranxilium).ti,ab.
- 24 118. (delorazepam or briantum\$1 or chlordemethyldiazepam or
25 chlordesmethyldiazepam or chloro n demethyldiazepam or
26 chlorodemethyldiazepam or chlorodesmethyldiazepam or
27 chloronordiazepam).ti,ab.
- 28 119. diazepam.sh. or (diazepam or alupram or ansiolin\$1 or antenex or
29 apaurin\$1 or apaurin\$1 or apozepam or assival\$1 or audium\$1 or
30 bialzepam or bialzegan\$1 or calmpos\$1 or cercin\$1 or cersin\$1 or
31 chlordiazepam or dialar or diastat or diazelium or diazemuls or
32 diazidem or ducen\$1 or duxen\$1 or eridan or eurosan\$1 or evacalm\$1
33 or fanstan\$1 or faustan\$1 or gewacalm\$1 or lamra or lembrol\$1 or
34 lipodiazepam or lorinon\$1 or methyldiazepinon\$1 or
35 methyldiazepinon\$1 or morosan\$1 or neocalm\$1 or neurolytril\$1 or
36 noan or novazam or paceum or plidan or psychopax or relanium or
37 rimapam or sedapam or seduxen\$1 or serendin\$1 or setonil\$1 or
38 sibazon\$1 or sonacon\$1 or stesolid\$1 or stesolin\$1 or tanquo tablinen\$1
39 or tensium or tranimul\$1 or tranquo puren or umbrium\$1 or valaxon\$1
40 or valclair or valiquid\$1 or valium or valpam or valreleas\$1 or
41 vatran\$1 or vival\$1 or vivol4 or zetran\$1).ti,ab.
- 42 120. flunitrazepam.sh. or (flunitrazepam or flurazepam or fluridrazepam or
43 darken\$1 or fluni 1a pharma or flunibeta or flunimerck or fluninoc or
44 flunipam or flunita or flunitrax or flunizep von ct or hypnodorm\$1 or
45 hypnosedon\$1 or inervon\$1 or narcozep or parnox or rohipnol\$1 or
46 rohypnol\$1 or roipnol\$1 or silece or valsera).ti,ab.

CONSULTATION DRAFT

- 1 121. flurazepam.sh. or (flurazepam or benozil\$1 or dalmadorm\$1 or
2 dalman\$1 or dalmate or dormodor\$1 or lunipax or staurodorm\$1 or
3 dalman\$1 or dormodor\$1 or dalmadorm\$1).ti,ab.
4 122. (flutoprazepam or restas).ti,ab.
5 123. lopraxolam .ti,ab.
6 124. lorazepam.sh. or (lorazepam or almazin\$1 or alzapam or
7 apolorazepam or ativan or bonatranquan\$1 or donix or duralozam or
8 durazolam or idalprem or kendol\$1 or laubeel or lorabenz or loranas\$1
9 or loranz\$1 or lorans or lorax or lorazep von ct or loridem\$1 or
10 lorivan\$1 or mesmerin\$1 or novo lorazem\$1 or novolorazem\$1 or novo
11 lorazem\$1 or nu loraz or nuloraz or orfidal or orifadal\$1 or pro dorm
12 or quait or securit or sedicepan\$1 or sinestron\$1 or somagerol\$1 or
13 tavor or temesta or tolid or wypax).ti,ab.
14 125. (lormetazepam or loramet or (lorazepam adj2 methyl) or
15 methyllorazepam or minians or minias or noctamid\$1 or
16 pronoctan\$1).ti,ab.
17 126. (mexazolam or melex or sedoxil\$1).ti,ab.
18 127. midazolam.sh. or (midazolam or dormicum or dormonid\$1 or
19 hypnoval\$1 or hypnovel\$1 or hypnoyvel\$1 or versed).ti,ab.
20 128. nitrazepam.sh. or (nitrazepam or alodorm or atempol\$1 or benzalin\$1
21 or dormalon\$1 or dormo puren or dumolid or eatan or eunoctin\$1 or
22 hypnotex or imadorm or imeson\$1 or insomin\$1 or mogadan\$1 or
23 mogadon\$1 or nelbon\$1 or nirven\$1 or nitra zepam or nitrados or
24 nitravet or nitrazadon\$1 or nitrazep or nitrodiazepam or novanox or
25 pacisyn or radedorm\$1 or remnos or restorem\$1 or sedamon\$1 or
26 serenade or somnased\$1 or somnibel\$1 n or somnit\$1).ti,ab.
27 129. oxazepam.sh. or (oxazepam or abboxapam or adumbran\$1 or alopam
28 or anxiolit\$1 or azutranquil\$1 or durazepam or expidet\$1 or hilong or
29 isodin\$1 or linbial\$1 or noctazepam or oxapuren\$1 or oxepam or
30 praxiten\$1 or serax or serenid\$1 or serepax or seresta or serpax or
31 sigacalm\$1 or sobril\$1 or tazepam\$1 or uskan).ti,ab.
32 130. prazepam.sh. or (prazepam or centrax or demetrin\$1 or lysanxia or
33 mono demetrin\$1 or monodemetrin\$1 or reapam or sedapran\$1 or
34 verstran).ti,ab.
35 131. temazepam.sh. or (temazepam or apo temazepam or dasuen or
36 euhypos or hydroxydiazepam or levanxol\$1 or methyloxazepam or
37 nocturne\$1 or norkotral tema or normison\$1 or normitab or nortem or
38 oxydiazepam or planum or pronervon t or remestan\$1 or restoril\$1 or
39 signopam or temaz\$1 or temazep von ct or temazepax or temtabs or
40 tenox or texapam).ti,ab.
41
42 132. or/1-131
43
44

45 *g) Safer prescribing*
46

CONSULTATION DRAFT

1 Medline - Ovid SP interface

2

3 *For people who self-harm, what are the key principles underlying safer prescribing?*

4 1. exp analgesics/ or exp salicylic acids/ or (ana?lges\$ or salicyl\$.ti,ab.

5 2. (acetylsalicylic acid or 2 acetoxybenzoate or acenterine or acesal or
6 acetan or acetard or aceticyl or acetilum or acetonyl or acetophen or
7 acetosal or acetosalicylic acid or acetosalin or acetosalum or acetyl
8 salicylate or acetyl salicylic acid or acetylic salicylic acid or acetylin or
9 acetylo or acetylon or acetylosalicylic acid or acetylsal or
10 acetylsalicyclic acid or acetylsalicyl or acetylsalicylate or
11 acetylsalicylate strontium or acetylsalicylic acid or acetylsalicyc acid or
12 acetylsalicyclic acid or acetysal or acidulatum or acidum acetyl
13 salicylicum or acidum acetylosalicylicum or acidum acetylsalicylicum
14 or acylpyrin or acylpyrine or acytosal or adiro or alabukun or alasil or
15 alka seltzer or alkaspirin or aloxiprimum or anopyrin or arthralgyl or
16 asaflow or asaphen or aspergum or aspirgran or aspirin or aspirina or
17 aspirine or aspirinine or aspisol or aspro or asrivo or asteric or astrix or
18 bebesan or biprin or boxazin or breoprin or bufferin or cafenol or
19 catalgine or catalgix or cemerit or cemirit or claradin or claragine or
20 colfarit or colfarit or contrheuma or contrheuma retard or daga or
21 darosal or depot aspirin or dispirin or dispril or dolean or easprin or
22 ecotrin or egalgic or emocin or empirin or encaprin or endosprin or
23 endosprin or entericin or enterosarine or enterospirine or entrophen or
24 euthermine or extren or genasprin or godamed or gotosan or helicon or
25 infatabs a or istopirin or istopyrine or ivepirine or juvepirine or kilios
26 or kinderaspirin or magnecyl or measurin or mejoral or micristin or
27 micristin or micropyrin or mikristin or miniasal or mycristin or nu seal
28 or nuseals or ortho acetoxybenzoate or ortho acetoxybenzoic acid or
29 ortho acetyloxybenzoate or ortho acetyloxybenzoic acid or ostoprin or
30 pancemol or para acetylsalicylic acid or paracin or paynocil or pengo
31 or polopirin or polopiryna or polopiryna or premaspin or primaspan
32 or pyronoval or reumyl or rhodine or rhonal or salacetin or salacetogen
33 or saletin or sargepirine or slow release aspirin or sodium
34 acetylsalicylate or sodium bicarbonate acetyl salicylate or sodium
35 bicarbonate acetylsalicylate or soldral or solprin or solpyron or
36 solucetyl or solupsa or solupsan or super tru or tapal or temagin or
37 treupahlin or treuphalin or turivital or verin or vitalink or xaxa or
38 zorprin).ti,ab.

39 3. alfentanil/ or (alfentanil or alfenta or alfentanil or alfentanil
40 hydrochloride or alfentanyl or alfentanyl or fanaxal or limifen or
41 rapifen).ti,ab.

42 4. (almotriptan or almogran or almotriptan malate or axert).ti,ab.

43 5. (buprenorphin\$ or buprenex or buprex or finibron or lepetan or prefin
44 or suboxone or subutex or temgesic or transtec).ti,ab.

45 6. caffeine/ or caffeine\$.ti,ab.

CONSULTATION DRAFT

- 1 7. cannabis/or (cannabis or cannabi or cannabis or ganja or ganjas or
2 hemp or hemsps or marihuana or marihuanas or marijuana or
3 marijuanas or opiate).ti,ab.
- 4 8. (cocodamol or acetaminophen plus codeine phosphate or empracet or
5 hypertussin or lindilane or nedolon or panadeine or paracodal or
6 percogesic with codeine or talvosilen or treuphadol plus).ti,ab.
- 7 9. (codeine phosphate or ardinex or codein phosphate or codeine or
8 codeine phosphate or codicompren retard or colrex compound or
9 galcodeine or isocodeine or kodein or n methyilmorphine or tricodein or
10 tussispect).ti,ab.
- 11 10. (codydramol or codidramol).ti,ab.
- 12 11. cyclizine/or (cyclizine or collox or cyclizine or marazine or marezine or
13 marzine or neo devomit or valoid).ti,ab.
- 14 12. dextromoramide/or (dextromoramide or d moramide or dextro
15 moramide or dextromoramide or dextromoramine or dimorlin or d-
16 moramide or jetrium or moramide or palfium or palfium or palphium
17 or pyrrolamidol or pyrrolamidole or pyrroloamidol).ti,ab.
- 18 13. dextropropoxyphene/or (co proxamol or coproxamol or cosalgesic or d
19 propoxyphene or darvon or dextropropoxyphene or diantalvic or
20 distalgesic or d-propoxyphene or dystalgesic or paradex or
21 propoxyphene).ti,ab.
- 22 14. (dihydrocodeine or cis dihydrocodeine or codhydrin or codhydrine or
23 codicontin or cohydrin or dehadodin or dh codeine or didrate or
24 dihydrin or dihydroneopine or drocode or hydrocodeine or
25 hydrocodin or nadein or nadeine or napacodin or novicodin or
26 paracodein or paracodin or paramol or parzone or rapacodin or
27 remedacen or tiamon mono or trans dihydrocodeine).ti,ab.
- 28 15. (dipipanone or pipadone or piperidyl amidone).ti,ab.
- 29 16. eletriptan.ti,ab.
- 30 17. ergotamine/ or (ergate or ergomar or ergostat or ergotamine tartrate or
31 ergotaminetartras or exmigra or femergin or gynergen or lingraine or
32 medihaler ergotamine or relpax or virdex or wigrettes).ti,ab.
- 33 18. fentanyl/or (fentanyl\$ or duragesic or duragesic or durogesic or
34 fentanyl or fentanest or fentanil or fentora or fetnanyl or ionsys or
35 leptanal or phentanyl or sublimaze or transfenta).ti,ab.
- 36 19. (frovatriptan allegro or frova or migard or miguard).ti,ab.
- 37 20. (heroin\$1 or acetomorphine or diacephine or diacetyl morphine or
38 diacetylmorphine or diagesil or diamorf or diamorphine or diaphorin
39 or morphacetin).ti,ab.
- 40 21. (hydromorphone or biomorphyl or cofalaudid or dihydromorphinone
41 or dihydromorphone or dilaudid or dimorphone or hydromorphinone
42 hydrochloride hydromorphon or hydromorphone or hymorphan or
43 laudacon or laudaconum or novolaudon or palladon or palladone or
44 palladone or semcox or sophidone).ti,ab.
- 45 22. isometheptene mucate.ti,ab.

CONSULTATION DRAFT

- 1 23. ketorolac\$.sh. or (droal or isometheptenemucate or isometheptine
2 mucate or ketocol or ketorolac or midrin or taradyl or toradol or
3 toratex).ti,ab.
- 4 24. meptazinol/ or (meptazinol or meptazinol or meptid).ti,ab.
- 5 25. exp methadone/ or (methadone\$ or adanon or adanon hydrochloride
6 or algidon or algolysin or algoxale or althose or amidon or amidone or
7 amidosan or anadon or biodone or butalgin or deamin or deipridol or
8 diaminon or dianone or dolafin or dolamid or dolesone or dolophine
9 or dolophine hydrochloride or dorex or dorexol or fenadon or
10 heptadon or heptanon or ketalgin or mecodin or mepecton or
11 mephenon or metadol or metasedin or methaddict or methadose or
12 methex or miadone or moheptan or phenadon\$1 or phymet or
13 physepton or physeptone or pinadone or polamidon or polamivet or
14 polamivit or sinalgin or symoron).ti,ab.
- 15 26. methysergide/or (methysergide\$ or deseril or desernil sandoz or desril
16 or dimethylergometrin or dimethylergometrine or dimethylergonovine
17 or methysergid or methysergide or methyl sergide or
18 methylmethylergonovine or methylsergide or methysergid or
19 methysergide or sansert).ti,ab.
- 20 27. exp morphine/ or morphinans/or (morphine or astramorph or avinza
21 or depodur or depomorphine or dolcontin or duramorph or
22 duramorple or kadian or kapanol or moraxen or morphia or
23 morphinesulfate or moscontin or ms contin or mst continus or mst
24 mundipharma or noceptin or oblioser or oramorph or roxanol or
25 sevredol or skenan lp).ti,ab.
- 26 28. exp naloxone/or (naloxone or maloxone or nalaxone or nalone or
27 nalonee or narcan or narcanti or narcon or narvcam).ti,ab.
- 28 29. (naratriptan or amerge or naramig).ti,ab.
- 29 30. nefopam/ or (nefopam or acupan or ajan or fenazoxine or lenipan or
30 nocipan).ti,ab.
- 31 31. opiate alkaloids/or opium/ or (opiate\$ or opioid\$ or opium).ti,ab.
- 32 32. (oxycodone or bionine or bionone or bolodorm or broncodal or
33 bucodal or cafacodal or cardanon or codenon or
34 dihydrohydroxydodeinone or dihydrone or dinarkon or endone or
35 eubine or eucodal or eucodale or eudin or eukdin or eukodal or
36 eumorphal or eurodamine or eutagen or hydrocodal or
37 hydroxycodoinoma or hydroxycodoinon or ludonal or medicodal or
38 narcobasina or narcobasine or narcosin or nargenol or narodal or
39 nucodan or opton or ossicodone or oxanest or oxicone or oxiconum or
40 oxikon or oxycodoinon or oxycodoinonhydrochloride or oxycodone or
41 oxycodonhydrochlorid or oxycodyl or oxycone or oxycontin or
42 oxygesic or oxykon or oxynorm or pancodine or pavinal or pronarcin
43 or remoxy or roxicodone or roxicodone or sinthiodal or stupenal or
44 tebodal or tekodin or thecodin or thecodin).ti,ab.
- 45 33. acetaminophen/ or (paracetamol or acetaminophen or acamol or
46 acephen or acetaco or acetamidophenol or acetaminophen or

CONSULTATION DRAFT

- 1 algotropyl or anacin 3 or anacin3 or apap or datril or
2 hydroxyacetanilide or p-acetamidophenol or panadol or tylenol).ti,ab.
3 34. pentazocine/ or (pentazocine or dolapent or fortal or fortalgescic or
4 fortral or fortraline or fortwin or lexir or liticon or peltazon or
5 pentacozine or pentafen or pentagin or pentalgina or pentazocin or
6 pentozocine or perutagin or sosegon or sosigon or talioin or
7 talwin).ti,ab.
8 35. exp meperidine/ or (pethidine or algil or alodan or centralgin or
9 centralgine or demerol or dispadol or dolanquifa or dolantal or
10 dolantin or dolantine or dolargan or dolcontral or dolenal or dolestin
11 or dolin or dolocontral or doloneurin or doloneurotrat or dolor or
12 dolosa or dolosal or dolosan or dolsin or dolvanol or endolate or
13 isonipecaïn or isonipecaïne or l pethidine or lidol or lydol or mefedina
14 or mepadïn or meperiden or meperidin or meperidine or mephedine or
15 mepiridine or mialgin or pantalgin or petadin or petantin or petantina
16 or pethanol or pethedine or pethidin or pethidine or petidin or
17 phetidine or piridosal or sauteralgyl or simesalgina or supposal or
18 synlaudine).ti,ab.
19 36. (pizotifen or mosegor or sanmigran or sanomigran).ti,ab.
20 37. (rizatriptan or maxalt).ti,ab.
21 38. sumatriptan/ or (sumatriptan succinate or imigran or imiject or imitrex
22 or sumadol or sumigrene).ti,ab.
23 39. (tolfenamic acid or clotam or clotan or rocicylne or tolfedine or
24 tolfenamate).ti,ab.
25 40. tramadol/or (tramadol or adolonta or amadol or biodalgic or biokanol
26 or contramal or dolzam or jutadol or kontram xl or melanate or
27 mtwtramadol or nobligan or prontofort or ranitidin 1a pharma or
28 takadol or theradol or tiral or topalgic or tradol or tradolpuren or
29 tradonal or tralgiol or trama abz or trama dorsch or trama kd or
30 tramabeta or tramadin or tramadoc or tramadoldolgit or
31 tramadolhameln or tramadolium chloride or tramadolor or
32 tramadolratiopharm or tramadorsch or tramadura or tramagetic or
33 tramagit or tramake or tramal or tramex or tramundin or trasedal or
34 trodon or trondon or ultram or xymel 50 or zamudol or zumalgic or
35 zydol or zytram).ti,ab.
36 41. (zolmitriptan or ascotop or zomig or zomigon).ti,ab.
37 42. (zopiclone or amoban or imovance or imovane or ximovan or
38 zimovane or zoplicon).ti,ab.
39 43. or/1-42
40 44. exp benzodiazepines/ or (benzo\$1 or benzodiazepin\$).ti,ab.
41 45. (alprazolam or alprox or apo alpraz or apoalpraz or aprazolam\$1 or
42 cassadan\$1 or esparon\$1 or helex or kalma or novo alprazol\$1 or
43 novoalprazol\$1 or nu alpraz or nualpraz or ralozam or solanax or
44 tafil\$1 or frankimazin\$1 or valeans or xanax or xanor).ti,ab.
45 46. (bromazepam or anxyrex or bartul or bromalich or bromaz pharma or
46 bromazani1\$1 or bromazep von ct or durazani1\$ or lectopam\$1 or

- 1 lexamil\$1 or lexatin\$1 or lexaurin\$1 or lexilium or lexomil\$1 or
2 lexotan\$1 or lexotanil\$1 or lexotanil\$1 or normoc or sintroge(\$1).ti,ab.
3 47. (chlordiazepoxid\$1 or methaminodiazepoxid\$1 or elenium\$1 or
4 librium\$1 or chlozepid\$1 or ansiacal\$1 or benzodiapin\$1 or cebrum\$1
5 or chlordiazepoxyd\$1 or chlorodiazepoxid\$1 or clopoxid\$1 or contol\$1
6 or decacil\$1 or defobin\$1 or disarim\$1 or dizepin\$1 or dopoxid\$1 or
7 droxol\$1 or eden psych or elenium\$1 or elenum\$1 or equibral\$1 or
8 kalmocaps or labican\$1 or librelease or libritabs or librium or lipoxide
9 or mesural\$1 or metaminodiazepoxid\$1 or methaminodiazepoxid\$1 or
10 mildmen\$1 or mitran\$1 or multum\$1 or murcil\$1 or napoton\$1 or
11 napoton\$1 or novosed\$1 or psichial\$1 or psicosan\$1 or psicoterin\$1 or
12 radepur or reliberan\$1 or repositans or risolid or seren vita or servium
13 or silibrin\$1 or sk lygen or sonimen\$1 or timosin\$1 or viansin\$1 or
14 viopsicol\$1).ti,ab.
15 48. (clobazam or chlorepin\$1 or clobazepam or clorepin\$1 or frisium or
16 noiafren\$1 or urbadan\$1 or urbanil\$1 or urbanyl).ti,ab.
17 49. (clonazepam or antelepzin\$1 or clonopin\$1 or iktorivil\$1 or
18 klonazepam or klonopin\$1 or landsen\$1 or rivotril\$1).ti,ab.
19 50. (clorazepat\$1 or carboxylic acid or chlorazepat\$1 or chloroazepat\$1 or
20 clorazepic acid or tranxen\$1 or tranxilium).ti,ab.
21 51. (delorazepam or briantum\$1 or chlordemethyldiazepam or
22 chlordesmethyldiazepam or chloro n demethyldiazepam or
23 chlorodemethyldiazepam or chlorodesmethyldiazepam or
24 chloronordiazepam).ti,ab.
25 52. (diazepam or alupram or ansiolin\$1 or antenex or apaurin\$1 or
26 apaurin\$1 or apozepam or assival\$1 or audium\$1 or bialzepam or
27 bialzegan\$1 or calmpos\$1 or cercin\$1 or cersin\$1 or chlordiazepam or
28 dialar or diastat or diazeliuim or diazemuls or diazidem or ducen\$1 or
29 duxen\$1 or eridan or eurosan\$1 or evacalm\$1 or fanstan\$1 or faustan\$1
30 or gewacalm\$1 or lamra or lembrol\$1 or lipodiazepam or lorinon\$1 or
31 methyldiazepinon\$1 or methyldiazepinon\$1 or morosan\$1 or
32 neocalm\$1 or neurolytril\$1 or noan or novazam or paceum or plidan or
33 psychopax or relanium or 1 rimapam or sedapam or seduxen\$1 or
34 serendin\$1 or setonil\$1 or sibazon\$1 or sonacon\$1 or stesolid\$1 or
35 stesolin\$1 or tanquo tablinen\$ or tensium or tranimul\$1 or tranquo
36 puren or umbrium\$1 or valaxon\$1 or valclair or valiquid\$1 or valium
37 or valpam or valreleas\$ or vatran\$1 or vival\$1 or vivol or
38 zetran\$1).ti,ab.
39 53. (flunitrazepam or flurazepam or fluridrazepam or darken\$1 or fluni 1a
40 pharma or flunibeta or flunimerck or fluninoc or flunipam or flunita or
41 flunitrax or flunizep von ct or hypnodorm\$1 or hypnosodon\$1 or
42 inervon\$1 or narcozep or parnox or rohipnol\$1 or rohypnol\$1 or
43 roipnol\$1 or silece or valsera).ti,ab.
44 54. (flurazepam or benozil\$1 or dalmadorm\$1 or dalman\$1 or dalmate or
45 dormodor\$1 or lunipax or staurodorm\$1 or dalman\$1 or dormodor\$1
46 or dalmadorm\$1).ti,ab.

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- 1 55. (flutoprazepam or restas).ti,ab.
2 56. loprazolam.ti,ab.
3 57. (lorazepam or almazin\$1 or alzapam or apolorazepam or ativan or
4 bonatranquan\$1 or donix or duralozam or durazolam or idalprem or
5 kendol\$1 or laubeel or lorabenz or loranas\$1 or loranz\$1 or lorans or
6 lorax or lorazep von ct or loridem\$1 or lorivan\$1 or mesmerin\$1 or
7 novo lorazem\$1 or novolorazem\$1 or novo lorazem\$1 or nu loraz or
8 nuloraz or orfidal or orifadal\$1 or pro dorm or quait or securit or
9 sedicepan\$1 or sinestron\$1 or somagerol\$1 or tavor or temesta or tolid
10 or wypax).ti,ab.
11 58. (lormetazepam or loramet or (lorazepam adj2 methyl) or
12 methyllorazepam or minians or minias or noctamid\$1 or
13 pronoctan\$1).ti,ab.
14 59. (mexazolam or melex or sedoxil\$1).ti,ab.
15 60. (midazolam or dormicum or dormonid\$1 or hypnoval\$1 or
16 hypnovel\$1 or hypnoyvel\$1 or versed).ti,ab.
17 61. (nitrazepam or alodorm or atempol\$1 or benzalin\$1 or dormalon\$1 or
18 dormo puren or dumolid or eatan or eunoctin\$1 or hypnotex or
19 imadorm or imeson\$1 or insomin\$1 or mogadan\$1 or mogadon\$1 or
20 nelbon\$1 or nirven\$1 or nitrazepam or nitrados or nitravet or
21 nitrazadon\$1 or nitrazep or nitrodiazepam or novanox or pacisyn or
22 radedorm\$1 or remnos or restorem\$1 or sedamon\$1 or serenade or
23 somnased\$1 or somnibel\$1 n or somnit\$1).ti,ab.
24 62. (oxazepam or abboxapam or adumbran\$1 or alopam or anxiolit\$1 or
25 azutranquil\$1 or durazepam or expidet\$1 or hilong or isodin\$1 or
26 linbial\$1 or noctazepam or oxapuren\$1 or oxepam or praxiten\$1 or
27 serax or serenid\$1 or serepax or seresta or serpax or sigacalm\$1 or
28 sobril\$1 or tazepam\$1 or uskan).ti,ab.
29 63. (prazepam or centrax or demetrin\$1 or lysanxia or mono demetrin\$1 or
30 monodemetrin\$1 or reapam or sedapran\$1 or verstran).ti,ab.
31 64. (temazepam or apo temazepam or dasuen or euhygnos or
32 hydroxydiazepam or levaxol\$1 or methyloxazepam or nocturne\$1 or
33 norkotral tema or normison\$1 or normitab or nortem or oxydiazepam
34 or planum or pronervon t or remestan\$1 or restoril\$1 or signopam or
35 temaz\$1 or temazep von ct or temazepax or temtabs or tenox or
36 texapam).ti,ab.
37 65. or/44-64
38 66. exp antidepressive agents, tricyclic/ or (tca\$1 or tricyclic\$).ti,ab.
39 67. (amitriptyl\$1 or amitriptyl\$1 or amitryptin\$1 or amitriptylin\$1 or
40 amytriptil\$1 or amytriptyl\$1 or amytriptil\$1 or adepress or adepril\$1
41 or ambivalon\$1 or amineurin\$1 or amitid\$1 or amitril\$1 or amitrip or
42 amitrol\$1 or anapsique or antitriptylin\$1 or apoamitriptylin\$1 or
43 damilen\$1 or damylen\$1 or domical\$1 or elatrol\$1 or elavil\$1 or endep
44 or enovil\$1 or etafon\$1 or etafron\$1 or euplit\$1 or lantron\$1 or
45 laroxal\$1 or laroxyl\$1 or lentizol\$1 or novoprotect or proheptadien\$1
46 or redomex or sarboten retard 75 or saroten\$1 or sarotex or stelminimal\$1

- 1 or sylvemid\$1 or syneudon\$1 or teperin\$1 or terepin\$1 or triptafen\$1
 2 or triptanol\$1 or triptizol\$1 or triptyl or triptylin\$1 or tryptanol\$1 or
 3 tryptin\$1 or tryptizol\$1).ti,ab.
- 4 68. (chlomipramin\$1 or chlorimipramin\$1 or chloroimipramin\$1 or
 5 clomipramin\$1 or anafranil\$1 or anafranilin\$1 or anafranyl or
 6 domipramin\$1 or hydiphen\$1 or monochlor imipramin\$1 or
 7 monochlorimipramin\$1 or monochloroimipramin\$1).ti,ab.
- 8 69. (dothiepin\$1 or dosulepin\$1 or altapin\$1 or depresym\$1 or dopress or
 9 dothep or idom or prothiaden\$1 or prothiadien\$1 or prothiadin\$1 or
 10 protiaden\$1 or thaden).ti,ab.
- 11 70. (doxepin\$1 or adapin\$1 or apodoxepin\$1 or aponal\$1 or co dox or
 12 curatin\$1 or deptran\$1 or desidox or doneurin\$1 or doxepia or espadox
 13 or mareen or prudoxin\$1 or quitaxon\$1 or silenor or sinepin or
 14 sinequan\$1 or sinquan\$1 or xepin\$1 or zonalon\$1).ti,ab.
- 15 71. (imipramin\$1 or antideprin\$1 or berkomin\$1 or chrytemin\$1 or
 16 deprimin or deprinol\$1 or depsonil or dynaprin or eupramin or ia
 17 pram or imavate or imidobenzyl\$1 or imidol\$1 or imipramid\$1 or
 18 imipramil or imiprex or imiprin\$1 or imizin\$1 or irmin or janimin\$1 or
 19 melipramin\$1 or norchlorimipramin\$1 or norpramin\$1 or
 20 novopramin\$1 or presamin\$1 or pryleugan\$1 or psychoforin\$1 or
 21 psychoforin\$1 or servipramin\$1 or sk pramin\$1 or surplix or tofranil\$1
 22 or trofanil\$1).ti,ab.
- 23 72. (lofepramin\$1 or lopramin\$1 or amplit\$1 or deftan\$1 or feprapax or
 24 gamanil\$1 or gamonil\$1 or lomont or lopramin\$1 or tymelyt).ti,ab.
- 25 73. (mianserin\$1 or athymil\$1 or bolvidon\$1 or investig or lantanon\$1 or
 26 lanthanon\$1 or lerivon\$1 or miaxan\$1 or norval or serelan\$1 or
 27 tetramid\$1 or tolvin\$1 or tolvon\$1).ti,ab.
- 28 74. (nortriptylin\$1 or acetexa or allegron\$1 or altilev or atilev or avantyl or
 29 aventyl or desitriptylin\$1 or desmethyramidriptylin\$1 or martimil\$1 or
 30 noramitriptylin\$1 or norfenazin\$1 or noritren\$1 or norpress or
 31 nortrilen\$1 or nortryptilin\$1 or nortriptylin\$1 or pamelor or paxtibi or
 32 propylamin\$1 or psychostyl or sens?val).ti,ab.
- 33 75. opipramol/or (opipramol\$1 or dinsidon\$1 or ensidon\$1 or eusidon\$1
 34 or insidon\$1 or nisidan\$1 or oprimol or pramolans\$1).ti,ab.
- 35 76. (trazodon\$1 or beneficat or deprax or desirel or desyrel\$1 or
 36 molipaxin\$1 or pesyrel\$1 or rpragazon\$1 or pragmarel\$1 or
 37 pragmazon\$1 or thombran\$1 or thrombin\$1 or thrombran\$1 or
 38 tombran\$1 or trasodon\$1 or trazolan\$1 or trazorel or trazon\$1 or
 39 trialodine or trittico).ti,ab.
- 40 77. (trimepramin\$1 or trimeprimin\$1 or trimepropimin\$1 or trimidura or
 41 trimineurin\$1 maleate or trimipramin\$1 or trimoprimin\$1 or eldoral\$1
 42 or herphonal\$1 or trimineurin\$1 or novo tripramin\$1 or
 43 novotripramin\$1 or nutrimipramin\$1 or rhotrimin\$1 or stangyl or
 44 surmontil\$1 or apo trimip or apotrimip or herphonal\$1 or stangyl or
 45 surmontil\$1).ti,ab.

- 1 78. exp serotonin uptake inhibitors/ or (((serotonin or 5 ht or 5
2 hydroxytryptamine) adj (uptake or reuptake or re uptake) adj inhibit\$
3 or ssri\$).ti,ab.
4 79. (citalopram or celexa or cipramil\$1 or cytalopram or elopram or
5 escitalopram or lexapro or nitalapram or sepram or seropram).ti,ab.
6 80. (escitalopram or cipralext or lexapro or seroplex).ti,ab.
7 81. (fluoxetine\$1 or flucitine\$1 or flunixin\$1 or fluoxetine or prozac or prozac
8 or prozamin or sarafem or symbyax).ti,ab.
9 82. (fluvoxamine\$1 or depromine\$1 or desflurine or dumirox or faverin\$1 or
10 fevarin\$1 or floxyfral\$1 or fluoxamine\$1 or fluvoxamine\$1 or fluvoxaduraxone
11 or luvox).ti,ab.
12 83. (nefazadone\$1 or dutonin or nefadar or reseril\$1 or serzon\$1).ti,ab.
13 84. (paroxetine\$1 or aropax or deroxat or motivan\$1 or paxil or pexeva or
14 seroxat or tagonis).ti,ab.
15 85. (sertraline\$1 or altruline\$1 or aremis or besitrane\$1 or gladem or lustral\$1
16 or naphthylamine\$1 or sealdin\$1 or serad or serlain\$1 or tresleen or
17 zoloft).ti,ab.
18 86. or/66-85
19 87. or/1-86
20 88. (ae or ct or po or to).fs.
21 89. exp abnormalities, drug induced/ or exp adverse drug reaction
22 reporting systems/ or exp death/ or exp drug hypersensitivity/ or exp
23 drug-induced liver injury / or drug interactions/ or exp intraoperative
24 complications/ or drug monitoring/ or exp drug tolerance/ or
25 overdose/ or exp poisoning/ or exp postoperative complications/ or
26 exp product surveillance, postmarketing/ or respiration depression/
27 or risk/ or risk assessment/ or risk factors/ or exp toxemia/
28 90. (causa\$ or ((adverse or negativ\$ or side or undesir\$ or unwanted) adj2
29 (effect\$ or event\$ or outcome\$ or reaction\$)) or death\$ or
30 discontinuation effect\$ or (caution\$ or complication\$ or contraindicat\$
31 or contra indicat\$ or harm\$ or hazard\$ or interaction\$1 or intolerab\$ or
32 lethal\$ or noxious\$ or overdos\$ or safety or safe or tolerab\$ or toxic\$ or
33 warning\$) or (treatment emergent or adrs)).ti,ab.
34 91. or/88-90
35 92. 87 and 91
36
37

38 **Search filters**

39
40 *a) Health economics and quality of life search filter – an adaptation of a filter*
41 *designed by the Centre for Reviews and Dissemination (CRD) (2007).*
42

43 Medline – Ovid SP interface

- 44
45 1. budgets/ or capital expenditures/ or cost allocation/ or cost benefit
46 analysis/ or cost control/ or "cost of illness"/or cost savings/ or cost
47 sharing/ or cost-benefit analysis/ or "costs and cost analysis"/ or

- 1 "deductibles and coinsurance"/ or direct service costs/ or drug costs/
 2 or economics/ or economics, hospital/ or economics, medical/ or
 3 economics, nursing/ or economics, pharmaceutical/ or employer
 4 health costs/ or "fees and charges"/ or financial management/ or
 5 financial management, hospital/ or health care costs/ or health care
 6 rationing/ or health expenditures/ or health priorities/ or health
 7 resources/ or "health services needs and demand"/ or hospital costs/
 8 or medical savings accounts/ or models, econometric/or models,
 9 economic/ or quality-adjusted life years/ or "quality of life"/ or
 10 resource allocation/ or "value of life"/
- 11 2. (budget\$ or cost\$ or econom\$ or expenditure\$ or financ\$ or fiscal or
 12 funding or pharmaco-economic\$ or socio-economic\$ or price or prices or
 13 pricing or (value adj3 money) or (burden adj3 (disease\$ or
 14 illness\$)).ti,ab.
- 15 3. (daly or qol or hql or hqol or hrqol or hr ql or hrql or (quality adj2 life)
 16 or (adjusted adj2 life) or qaly\$ or (health adj2 stat\$) or well being or
 17 wellbeing or qald\$ or qale\$ or qtime\$ or eq5d or eq 5d or qwb or
 18 ((quality or value\$) adj3 (life or survival or well\$)) or hui\$1 or (utilit\$
 19 adj1 (health or score\$ or weigh\$)) or (life adj2 year\$) or health year
 20 equivalent\$ or ((disability or quality) adj adjusted) or utility value\$ or
 21 (weight\$ adj3 preference\$) or euroqol or euro qol or visual analog\$ or
 22 standard gamble or time trade or qtwist or q twist or (valu\$ adj2
 23 quality)).tw.
- 24 4. decision trees/
- 25 5. (decision analy\$ or monte carlo or markov or simulation model\$ or
 26 rosser or disutili\$ or willingness to pay or tto or hye or hyes or
 27 (resource adj (allocat\$ or use\$ or utilit\$)).tw.
- 28 6. (sf36 or sf 36 or short form 36 or shortform 36 or sf thirtysix or sf thirty
 29 six or shortform thirtysix or shortform thirty six or short form thirtysix
 30 or short form thirty six).tw.
- 31 7. (sf6 or sf 6 or short form 6 or shortform 6 or sf six or sfsix or shortform
 32 six or short form six).tw.
- 33 8. (sf12 or sf 12 or short form 12 or shortform 12 or sf twelve or sftwelve
 34 or shortform twelve or short form twelve).tw.
- 35 9. (sf16 or sf 16 or short form 16 or shortform 16 or sf sixteen or sfsixteen
 36 or shortform sixteen or short form sixteen).tw.
- 37 10. (sf20 or sf 20 or short form 20 or shortform 20 or sf twenty or sftwenty
 38 or shortform twenty or short form twenty).tw.
- 39 11. ec.fs. *[ANDED with subject heading searches for the main population/topic]*
- 40 12. or/1-11
- 41
- 42
- 43

1 **APPENDIX 13: METHODOLOGY CHECKLIST FOR**
 2 **ECONOMIC STUDIES**

3 This checklist is designed to determine whether an economic evaluation
 4 provides evidence that is useful to inform the decision-making of the
 5 guideline development group (GDG) (see chapter 7). It is not intended to
 6 judge the quality of the study per se or the quality of reporting.
 7

Byford, S., Knapp, M., Greenshields, J., <i>et al.</i> (2003) Cost-effectiveness of brief cognitive behaviour therapy versus treatment as usual in recurrent deliberate self-harm: a decision-making approach. <i>Psychological Medicine</i> , 33, 977-986.		
Section 1: Applicability (relevance to specific guideline review question(s) and the NICE reference case) This checklist should be used first to filter out irrelevant studies.	Yes/ Partially/ No /Unclear /NA	Comments
Is the patient population appropriate for the guideline?	Yes	
Are the interventions appropriate for the guideline?	Yes	
Is the healthcare system in which the study was conducted sufficiently similar to the current UK NHS context?	Yes	
Are costs measured from the NHS and PSS perspective?	Partially	Voluntary sector, community accommodation, criminal justice system and productivity costs included
Are all health effects on individuals included?	Yes	
Are both costs and health effects discounted at an annual rate of 3.5%?	NA	
Is the value of health effects expressed in terms of QALYs?	Yes	
Are changes in health related quality of life (HRQL) reported directly from patients and/or carers?	Yes	
Is the value of changes in HRQL (that is utilities) obtained from a representative sample of the public?	Unclear	Not specified in article
Overall judgement: Directly applicable		
Other comments:		

8

CONSULTATION DRAFT

Section 2: Study limitations (the level of methodological quality) This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the clinical guideline.	Yes/ Partially /No/ Unclear/NA	Comments
Does the model structure adequately reflect the nature of the health condition under evaluation?	NA	
Is the time horizon sufficiently long to reflect all important differences in costs and outcomes?	Partially	12-month study
Are all important and relevant health outcomes included?	Partially	Unclear whether QALY estimates included suicides
Are the estimates of baseline health outcomes from the best available source?	Yes	
Are the estimates of relative treatment effects from the best available source?	Yes	
Are all important and relevant costs included?	Partially	No costs to patients' family/carers included (within societal perspective)
Are the estimates of resource use from the best available source?	Yes	
Are the unit costs of resources from the best available source?	Yes	
Is an appropriate incremental analysis presented or can it be calculated from the data?	Yes	
Are all important parameters, whose values are uncertain, subjected to appropriate sensitivity analysis?	Yes	
Is there no potential conflict of interest?	No	
Overall assessment: Minor limitations		
Other comments:		

1
2

1

Byford, S., Harrington, R., Torgerson, D., et al. (1999) Cost-effectiveness analysis of a home-based social work intervention for children and adolescents who have deliberately poisoned themselves: results of a randomised controlled trial. <i>British Journal of Psychiatry</i> , 174, 56-62.		
Section 1: Applicability (relevance to specific guideline review question(s) and the NICE reference case) This checklist should be used first to filter out irrelevant studies.	Yes/ Partially/ No /Unclear /NA	Comments
Is the patient population appropriate for the guideline?	Yes	
Are the interventions appropriate for the guideline?	Yes	
Is the healthcare system in which the study was conducted sufficiently similar to the current UK NHS context?	Yes	
Are costs measured from the NHS and PSS perspective?	Partially	Educational sector costs included
Are all health effects on individuals included?	Partially	Suicidal ideation; hopelessness scale; family assessment device
Are both costs and health effects discounted at an annual rate of 3.5%?	NA	
Is the value of health effects expressed in terms of QALYs?	No	
Are changes in health related quality of life (HRQL) reported directly from patients and/or carers?	NA	
Is the value of changes in HRQL (that is utilities) obtained from a representative sample of the public?	NA	
Overall judgement: Partially applicable		
Other comments:		

2

3

CONSULTATION DRAFT

1

Section 2: Study limitations (the level of methodological quality) This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the clinical guideline.	Yes/ Partially /No/ Unclear/NA	Comments
Does the model structure adequately reflect the nature of the health condition under evaluation?	NA	
Is the time horizon sufficiently long to reflect all important differences in costs and outcomes?	Partially	6-month study
Are all important and relevant health outcomes included?	Partially	
Are the estimates of baseline health outcomes from the best available source?	Yes	
Are the estimates of relative treatment effects from the best available source?	Yes	
Are all important and relevant costs included?	Partially	Educational sector costs included
Are the estimates of resource use from the best available source?	Yes	
Are the unit costs of resources from the best available source?	Yes	
Is an appropriate incremental analysis presented or can it be calculated from the data?	No	No significant differences detected in primary outcomes
Are all important parameters, whose values are uncertain, subjected to appropriate sensitivity analysis?	Partially	One way sensitivity analyses on cost estimates
Is there no potential conflict of interest?	No	
Overall assessment: Minor limitations		
Other comments:		

2

3

1 *Notes on use of Methodology checklist: economic evaluations*

2 For all questions:

3

- 4 • answer 'yes' if the study fully meets the criterion
- 5 • answer 'partly' if the study largely meets the criterion but differs in
- 6 some
- 7 • important respect
- 8 • answer 'no' if the study deviates substantively from the criterion
- 9 • answer 'unclear' if the report provides insufficient information to judge
- 10 • whether the study complies with the criterion
- 11 • answer 'NA (not applicable)' if the criterion is not relevant in a
- 12 particular instance.

13

14 For 'partly' or 'no' responses, use the comments column to explain how the

15 study deviates from the criterion.

16

17 **Section 1: applicability**

18 **1.1 Is the study population appropriate for the guideline?**

19 The study population should be defined as precisely as possible and should

20 be in line with that specified in the guideline scope and any related review

21 protocols.

22 This includes consideration of appropriate subgroups that require special

23 attention. For many interventions, the capacity to benefit will differ for

24 participants with differing characteristics. This should be explored separately

25 for each relevant subgroup as part of the base-case analysis by the provision

26 of estimates of clinical and cost effectiveness. The characteristics of

27 participants in each subgroup should be clearly defined and, ideally, should

28 be identified on the basis of an a priori expectation of differential clinical or

29 cost effectiveness as a result of biologically plausible known mechanisms,

30 social characteristics or other clearly justified factors.

31

32 Answer 'yes' if the study population is fully in line with that in the guideline

33 question(s) and if the study differentiates appropriately between important

34 subgroups. Answer 'partly' if the study population is similar to that in the

35 guideline question(s) but: (i) it differs in some important respects; or (ii) the

36 study fails to differentiate between important subgroups. Answer 'no' if the

37 study population is substantively different from that in the guideline

38 question(s).

39

40 **1.2 Are the interventions appropriate for the guideline?**

41 All relevant alternatives should be included, as specified in the guideline

42 scope and any related review protocols. These should include routine and

1 best practice in the NHS, existing NICE guidance and other feasible options.
2 Answer 'yes' if the analysis includes all options considered relevant for the
3 guideline, even if it also includes other options that are not relevant. Answer
4 'partly' if the analysis omits one or more relevant options but still contains
5 comparisons likely to be useful for the guideline. Answer 'no' if the analysis
6 does not contain any relevant comparisons.

7 **1.3 Is the healthcare system in which the study was conducted**
8 **sufficiently similar to the current UK NHS context?**

9 This relates to the overall structure of the healthcare system within which the
10 interventions were delivered. For example, an intervention might be
11 delivered on an inpatient basis in one country whereas in the UK it would be
12 provided in the community. This might significantly influence the use of
13 healthcare resources and costs, thus limiting the applicability of the results to
14 a UK setting. In addition, old UK studies may be severely limited in terms of
15 their relevance to current NHS practice.

16
17 Answer 'yes' if the study was conducted within the UK and is sufficiently
18 recent to reflect current NHS practice. For non-UK or older UK studies, a
19 answer 'partly' if differences in the healthcare setting are unlikely to
20 substantively change the cost-effectiveness estimates. Answer 'no' if the
21 healthcare setting is so different that the results are unlikely to be applicable
22 in the current NHS.

23 **1.4 Are costs measured from the NHS and personal social services (PSS)**
24 **perspective?**

25 The decision-making perspective of an economic evaluation determines the
26 range of costs that should be included in the analysis. NICE works in a
27 specific context; in particular, it does not set the budget for the NHS. The
28 objective of NICE is to offer guidance that represents an efficient use of
29 available NHS and PSS resources. For these reasons, the perspective on costs
30 used in the NICE reference case is that of the NHS and PSS. Productivity costs
31 and costs borne by patients and carers that are not reimbursed by the NHS or
32 PSS are not included in the reference case. The reference case also excludes
33 costs to other government bodies, although these may sometimes be
34 presented in additional analyses alongside the reference case.

35
36 Answer 'yes' if the study only includes costs for resource items that would be
37 paid for by the NHS and PSS. Also answer 'yes' if other costs have been
38 included in the study, but the results are presented in such a way that the cost
39 effectiveness can be calculated from an NHS and PSS perspective. Answer
40 'partly' if the study has taken a wider perspective but the other non-NHS/PSS
41 costs are small in relation to the total expected costs and are unlikely to
42 change the cost-effectiveness results. Answer 'no' if non-NHS/PSS costs are
43 significant and are likely to change the cost-effectiveness results. Some
44 interventions may have a substantial impact on non-health outcomes or costs

1 to other government bodies (for example, treatments to reduce illicit drug
2 misuse may have the effect of reducing drug-related crime). In such
3 situations, if the economic study includes non-health costs in such a way that
4 they cannot be separated out from NHS/PSS costs, answer 'no' but consider
5 retaining the study for critical appraisal. If studies containing non-reference-
6 case costs are retained, use the comments column to note why.

7 **1.5 Are all direct health effects on individuals included?**

8 In the NICE reference case, the perspective on outcomes should be all direct
9 health effects, whether for patients or, when relevant, other people principally
10 carers). This is consistent with an objective of maximising health gain from
11 available healthcare resources. Some features of healthcare delivery that are
12 often referred to as 'process characteristics' may ultimately have health
13 consequences; for example, the mode of treatment delivery may have health
14 consequences through its impact on concordance with treatment. Any
15 significant characteristics of healthcare technologies that have a value to
16 people that is independent of any direct effect on health should be noted.
17 These characteristics include the convenience with which healthcare is
18 provided and the level of information available for patients.

19
20 This question should be viewed in terms of what is **excluded** in relation to the
21 NICE reference case; that is, non-health effects.

22
23 Answer 'yes' if the measure of health outcome used in the analysis excludes
24 non-health effects (or if such effects can be excluded from the results). Answer
25 'partly' if the analysis includes some non-health effects but these are small
26 and unlikely to change the cost-effectiveness results. Answer 'no' if the
27 analysis includes significant non-health effects that are likely to change the
28 cost-effectiveness results.

29 **1.6 Are both costs and health effects discounted at an annual rate of**
30 **3.5%?**

31 The need to discount to a present value is widely accepted in economic
32 evaluation, although the specific rate varies across jurisdictions and over time.
33 NICE considers it appropriate to discount costs and health effects at the same
34 rate. The annual rate of 3.5%, based on the recommendations of the UK
35 Treasury for the discounting of costs, applies to both costs and health effects.

36
37 Answer 'yes' if both costs and health effects (for example, quality-adjusted life
38 years [QALYs]) are discounted at 3.5% per year. Answer 'partly' if costs and
39 effects are discounted at a rate similar to 3.5% (for example, costs and effects
40 are both discounted at 3% per year). Answer 'no' if costs and/or health effects
41 are not discounted, or if they are discounted at a rate (or rates) different from
42 3.5% (for example, 5% for both costs and effects, or 6% for costs and 1.5% for
43 effects). Note in the comments column what discount rates have been used. If

1 all costs and health effects accrue within a short time (roughly a year), answer
2 'NA'.

3 **1.7 Is the value of health effects expressed in terms of qualityadjusted**
4 **life years (QALYs)?**

5 The QALY is a measure of a person's length of life weighted by a valuation of
6 their health-related quality of life (HRQoL) over that period.

7

8 Given its widespread use, the QALY is considered by NICE to be the most
9 appropriate generic measure of health benefit that reflects both mortality and
10 effects on HRQoL. It is recognised that alternative measures exist (such as the
11 healthy-year equivalent), but few economic evaluations have used these
12 methods and their strengths and weaknesses are not fully established.

13

14 NICE's position is that an additional QALY should be given the same weight
15 regardless of the other characteristics of the patients receiving the health
16 benefit.

17

18 Answer 'yes' if the effectiveness of the intervention is measured using
19 QALYs; answer 'no' if not. There may be circumstances when a QALY cannot
20 be obtained or where the assumptions underlying QALYs are considered
21 inappropriate. In such situations answer 'no', but consider retaining the study
22 for appraisal. Similarly, answer 'no' but retain the study for appraisal if it
23 does not include QALYs but it is still thought to be useful for GDG decision-
24 making: for example, if the clinical evidence indicates that an intervention
25 might be dominant, and estimates of the relative costs of the interventions
26 from a costminimisation study are likely to be useful. When economic
27 evaluations not using QALYs are retained for full critical appraisal, use the
28 comments column to note why.

29 **1.8 Are changes in health-related quality of life (HRQoL) reported**
30 **directly from patients and/or carers?**

31 In the NICE reference case, information on changes in HRQoL as a result of
32 treatment should be reported directly by patients (and directly by carers
33 when the impact of treatment on the carer's health is also important). When it
34 is not possible to obtain information on changes in patients' HRQoL directly
35 from them, data should be obtained from carers (not from healthcare
36 professionals).

37

38 For consistency, the EQ-5D is NICE's preferred measure of HRQoL in adults.
39 However, when EQ-5D data are not available or are inappropriate for the
40 condition or the effects of treatment, other multi-attribute utility
41 questionnaires (for example, SF6D, QWB or HUI) or mapping methods from
42 disease-specific questionnaires may be used to estimate QALYs. For studies
43 not reporting QALYs, a variety of generic or disease-specific methods may be
44 used to measure HRQoL.

1

2 Answer 'yes' if changes in patients' HRQoL are estimated by the patients
3 themselves. Answer 'partly' if estimates of patients' HRQoL are provided by
4 carers. Answer 'no' if estimates come from healthcare professionals or
5 researchers. Note in the comments column how HRQoL was measured (EQ-
6 5D, QWB, HUI and so on). Answer 'NA' if the cost-effectiveness study does
7 not include estimates of HRQoL (for example, studies reporting 'cost per life
8 year gained' or cost-minimisation studies).

9 **1.9 Is the valuation of changes in HRQoL (utilities) obtained from a**
10 **representative sample of the general public?**

11 The NICE reference case specifies that the valuation of changes in HRQoL
12 (utilities) reported by patients should be based on public preferences elicited
13 using a choice-based method (such as the time trade-off or standard gamble)
14 in a representative sample of the UK population.

15

16 Answer 'yes' if HRQoL valuations were obtained using the EQ-5D UK tariff.
17 Answer 'partly' if the valuation methods were comparable to those used for
18 the EQ-5D. Answer 'no' if other valuation methods were used. Answer 'NA'
19 if the study does not apply valuations to HRQoL (for studies not reporting
20 QALYs). In the comments column note the valuation method used (such as
21 time trade-off or standard gamble) and the source of the preferences (such as
22 patients or healthcare professionals).

23

24 **1.10 Overall judgement**

25 Classify the applicability of the economic evaluation to the clinical guideline,
26 the current NHS situation and the context for NICE guidance as one of the
27 following:

28

- 29
- 30 • **Directly applicable** – the study meets all applicability criteria, or fails
31 to meet one or more applicability criteria but this is unlikely to change
32 the conclusions about cost effectiveness.
 - 33 • **Partially applicable** – the study fails to meet one or more applicability
34 criteria, and this could change the conclusions about cost effectiveness.
 - 35 • **Not applicable** – the study fails to meet one or more applicability
36 criteria, and this is likely to change the conclusions about cost
37 effectiveness. Such studies would be excluded from further
38 consideration and there is no need to continue with the rest of the
39 checklist.

39

40 **Section 2: study limitations**

41 **2.1 Does the model structure adequately reflect the nature of the health**
42 **condition under evaluation?**

1 This relates to the choice of model and its structural elements (including cycle
2 length in discrete time models, if appropriate). Model type and its structural
3 aspects should be consistent with a coherent theory of the health condition
4 under evaluation. The selection of treatment pathways, whether health states
5 or branches in a decision tree, should be based on the underlying biological
6 processes of the health issue under study and the potential impact (benefits
7 and adverse consequences) of the intervention(s) of interest.

8
9 Answer 'yes' if the model design and assumptions appropriately reflect the
10 health condition and intervention(s) of interest. Answer 'partly' if there are
11 aspects of the model design or assumptions that do not fully reflect the health
12 condition or intervention(s) but that are unlikely to change the
13 costeffectiveness results. Answer 'no' if the model omits some important
14 aspect of the health condition or intervention(s) and this is likely to change
15 the costeffectiveness results. Answer 'NA' for economic evaluations based on
16 data from a clinical study which do not extrapolate treatment outcomes or
17 costs beyond the study context or follow-up period.

18 **2.2 Is the time horizon sufficiently long to reflect all important** 19 **differences in costs and outcomes?**

20 The time horizon is the period of analysis of the study: the length of follow-up
21 for participants in a trial-based evaluation, or the period of time over which
22 the costs and outcomes for a cohort are tracked in a modelling study. This
23 time horizon should always be the same for costs and outcomes, and should
24 be long enough to include all relevant costs and outcomes relating to the
25 intervention. A time horizon shorter than lifetime could be justified if there is
26 no differential mortality effect between options, and the differences in costs
27 and HRQoL relate to a relatively short period (for example, in the case of an
28 acute infection).

29
30 Answer 'yes' if the time horizon is sufficient to include all relevant costs and
31 outcomes. Answer 'partly' if the time horizon may omit some relevant costs
32 and outcomes but these are unlikely to change the cost-effectiveness results.
33 Answer 'no' if the time horizon omits important costs and outcomes and this
34 is likely to change the cost-effectiveness results.

36 **2.3 Are all important and relevant health outcomes included?**

37 All relevant health outcomes should include direct health effects relating to
38 harms from the intervention (adverse effects) as well as any potential benefits.

39
40 Answer 'yes' if the analysis includes all relevant and important harms and
41 benefits. Answer 'partly' if the analysis omits some harms or benefits but
42 these would be unlikely to change the cost-effectiveness results. Answer 'no'
43 if the analysis omits important harms and/or benefits that would be likely to
44 change the cost-effectiveness results.

1 **2.4 Are the estimates of baseline health outcomes from the best available**
2 **source?**

3 The estimate of the overall net treatment effect of an intervention is
4 determined by the baseline risk of a particular condition or event and/or the
5 relative effects of the intervention compared with the relevant comparator
6 treatment. The overall net treatment effect may also be determined by other
7 features of the people comprising the population of interest.

8
9 The process of assembling evidence for economic evaluations should be
10 systematic – evidence must be identified, quality assessed and, when
11 appropriate, pooled, using explicit criteria and justifiable and reproducible
12 methods. These principles apply to all categories of evidence that are used to
13 estimate clinical and cost effectiveness, evidence for which will typically be
14 drawn from a number of different sources.

15
16 The sources and methods for eliciting baseline probabilities should be
17 described clearly. These data can be based on ‘natural history’ (patient
18 outcomes in the absence of treatment or with routine care), sourced from
19 cohort studies. Baseline probabilities may also be derived from the control
20 arms of experimental studies. Sometimes it may be necessary to rely on expert
21 opinion for particular parameters.

22
23 Answer ‘yes’ if the estimates of baseline health outcomes reflect the best
24 available evidence as identified from a recent well-conducted systematic
25 review of the literature. Answer ‘partly’ if the estimates are not derived from
26 a systematic review but are likely to reflect outcomes for the relevant group of
27 patients in routine NHS practice (for example, if they are derived from a large
28 UK-relevant cohort study). Answer ‘no’ if the estimates are unlikely to reflect
29 outcomes for the relevant group in routine NHS practice.

30
31 **2.5 Are the estimates of relative treatment effects from the best available**
32 **source?**

33 The objective of the analysis of clinical effectiveness is to produce an unbiased
34 estimate of the mean clinical effectiveness of the interventions being
35 compared.

36
37 The NICE reference case indicates that evidence on outcomes should be
38 obtained from a systematic review, defined as the systematic location,
39 inclusion, appraisal and synthesis of evidence to obtain a reliable and valid
40 overview of the data relating to a clearly formulated question.

41
42 Synthesis of outcome data through meta-analysis is appropriate provided that
43 there are sufficient relevant and valid data obtained using comparable
44 measures of outcome.

45

1 Head-to-head randomised controlled trials (RCTs) provide the most valid
2 evidence of relative treatment effect. However, such evidence may not always
3 be available. Therefore, data from non-randomised studies may be required to
4 supplement RCT data. Any potential bias arising from the design of the
5 studies used in the assessment should be explored and documented.

6
7 Data from head-to-head RCTs should be presented in the base-case analysis, if
8 available. When head-to-head RCTs exist, evidence from indirect or mixed
9 treatment comparison analyses may be presented if it is considered to add
10 information that is not available from the head-to-head comparison. This
11 indirect or mixed treatment comparison must be fully described and
12 presented as additional to the base-case analysis. (A 'mixed treatment
13 comparison' estimates effect sizes using both head-to-head and indirect
14 comparisons.)

15
16 If data from head-to-head RCTs are not available, indirect treatment
17 comparison methods should be used. (An 'indirect comparison' is a synthesis
18 of data from a network of trials that compare the interventions of interest with
19 other comparators.)

20
21 When multiple interventions are being assessed that have not been compared
22 within a single RCT, data from a series of pairwise head-to-head RCTs should
23 be presented. Consideration should also be given to presenting a combined
24 analysis using a mixed treatment comparison framework if it is considered to
25 add information that is not available from the head-to-head comparison.

26
27 Only indirect or mixed treatment comparison methods that preserve
28 randomisation should be used. The principles of good practice for standard
29 meta-analyses should also be followed in mixed and indirect treatment
30 comparisons.

31
32 The methods and assumptions that are used to extrapolate short-term results
33 to final outcomes should be clearly presented and there should be
34 documentation of the reasoning underpinning the choice of survival function.

35
36 Evidence for the evaluation of diagnostic technologies should normally
37 incorporate evidence on diagnostic accuracy. It is also important to
38 incorporate the predicted changes in health outcomes and costs resulting
39 from treatment decisions based on the test result. The general principles
40 guiding the assessment of the clinical and cost effectiveness of diagnostic
41 interventions should be the same as for other technologies. However,
42 particular consideration of the methods of analysis may be required,
43 particularly in relation to evidence synthesis. Evidence for the effectiveness of
44 diagnostic technologies should include the costs and outcomes for people
45 whose test results lead to an incorrect diagnosis, as well as for those who are
46 diagnosed correctly.

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As for other technologies, RCTs have the potential to capture the pathway of care involving diagnostic technologies, but their feasibility and availability may be limited. Other study designs should be assessed on the basis of their fitness for purpose, taking into consideration the aim of the study (for example, to evaluate outcomes, or to evaluate sensitivity and specificity) and the purpose of the diagnostic technology.

Answer 'yes' if the estimates of treatment effect appropriately reflect all relevant studies of the best available quality, as identified through a recent well-conducted systematic review of the literature. Answer 'partly' if the estimates of treatment effect are not derived from a systematic review but are similar in magnitude to the best available estimates (for example, if the economic evaluation is based on a single large study with treatment effects similar to pooled estimates from all relevant studies). Answer 'no' if the estimates of treatment effect are likely to differ substantively from the best available estimates.

2.6 Are all important and relevant costs included?

Costs related to the condition of interest and incurred in additional years of life gained as a result of treatment should be included in the base-case analysis. This should include the costs of handling non-adherence to treatment and treating side effects. Costs that are considered to be unrelated to the condition or intervention of interest should be excluded. If introduction of the intervention requires additional infrastructure to be put in place, consideration should be given to including such costs in the analysis.

Answer 'yes' if all important and relevant resource use and costs are included given the perspective and the research question under consideration. Answer 'partly' if some relevant resource items are omitted but these are unlikely to affect the cost-effectiveness results. Answer 'no' if important resource items are omitted and these are likely to affect the cost-effectiveness results.

2.7 Are the estimates of resource use from the best available source?

It is important to quantify the effect of the interventions on resource use in terms of physical units (for example, days in hospital or visits to a GP) and valuing those effects in monetary terms using appropriate prices and unit costs. Evidence on resource use should be identified systematically. When expert opinion is used as a source of information, any formal methods used to elicit these data should be clearly reported.

Answer 'yes' if the estimates of resource use appropriately reflect all relevant evidence sources of the best available quality, as identified through a recent well-conducted systematic review of the literature. Answer 'partly' if the estimates of resource use are not derived from a systematic review but are similar in magnitude to the best available estimates. Answer 'no' if the

1 estimates of resource use are likely to differ substantively from the best
2 available estimates.

3 **2.8 Are the unit costs of resources from the best available source?**

4 Resources should be valued using the prices relevant to the NHS and PSS.
5 Given the perspective of the NICE reference case, it is appropriate for the
6 financial costs relevant to the NHS/PSS to be used as the basis of costing,
7 although these may not always reflect the full social opportunity cost of a
8 given resource. A first point of reference in identifying costs and prices
9 should be any current official listing published by the Department of Health
10 and/or the Welsh Assembly Government.

11
12 When the acquisition price paid for a resource differs from the public list price
13 (for example, pharmaceuticals and medical devices sold at reduced prices to
14 NHS institutions), the public list price should be used in the base-case
15 analysis. Sensitivity analysis should assess the implications of variations from
16 this price. Analyses based on price reductions for the NHS will only be
17 considered when the reduced prices are transparent and can be consistently
18 available across the NHS, and if the period for which the specified price is
19 available is guaranteed.

20
21 National data based on healthcare resource groups (HRGs) such as the
22 Payment by Results tariff can be used when they are appropriate and
23 available. However, data based on HRGs may not be appropriate in all
24 circumstances (for example, when the definition of the HRG is broad, or the
25 mean cost probably does not reflect resource use in relation to the
26 intervention(s) under consideration). In such cases, other sources of evidence,
27 such as micro-costing studies, may be more appropriate. When cost data are
28 taken from the literature, the methods used to identify the sources should be
29 defined. When several alternative sources are available, a justification for the
30 costs chosen should be provided and discrepancies between the sources
31 explained. When appropriate, sensitivity analysis should have been
32 undertaken to assess the implications for results of using alternative data
33 sources.

34
35 Answer 'yes' if resources are valued using up-to-date prices relevant to the
36 NHS and PSS. Answer 'partly' if the valuations of some resource items differ
37 from current NHS/PSS unit costs but this is unlikely to change the cost
38 effectiveness results. Answer 'no' if the valuations of some resource items
39 differ substantively from current NHS/PSS unit costs and this is likely to
40 change the cost-effectiveness results.

41 **2.9 Is an appropriate incremental analysis presented or can it be**
42 **calculated from the data?**

1 An appropriate incremental analysis is one that compares the expected costs
2 and health outcomes of one intervention with the expected costs and health
3 outcomes of the next-best non-dominated alternative.

4
5 Standard decision rules should be followed when combining costs and effects,
6 and should reflect any situation where there is dominance or extended
7 dominance. When there is a trade-off between costs and effects, the results
8 should be presented as an incremental cost-effectiveness ratio (ICER): the
9 ratio of the difference in mean costs to the difference in mean outcomes of a
10 technology compared with the next best alternative. In addition to ICERs,
11 expected net monetary or health benefits can be presented using values
12 placed on a QALY gained of £20,000 and £30,000.

13
14 For cost-consequence analyses, appropriate incremental analysis can only be
15 done by selecting one of the consequences as the primary measure of
16 effectiveness.

17
18 Answer 'yes' if appropriate incremental results are presented, or if data are
19 presented that allow the reader to calculate the incremental results. Answer
20 'no' if: (i) simple ratios of costs to effects are presented for each alternative
21 compared with a standard intervention; or (ii) if options subject to simple or
22 extended dominance are not excluded from the incremental analyses.

23
24 *2.10 Are all important parameters whose values are uncertain subjected to*
25 *appropriate sensitivity analysis?*

26 There are a number of potential selection biases and uncertainties in any
27 evaluation (trial- or model-based) and these should be identified and
28 quantified where possible. There are three types of bias or uncertainty to
29 consider:

- 30
- 31 • Structural uncertainty – for example in relation to the categorisation of
32 different states of health and the representation of different pathways
33 of care. These structural assumptions should be clearly documented
34 and the evidence and rationale to support them provided. The impact
35 of structural uncertainty on estimates of cost effectiveness should be
36 explored by separate analyses of a representative range of plausible
37 scenarios.
 - 38 • Source of values to inform parameter estimates – the implications of
39 different estimates of key parameters (such as estimates of relative
40 effectiveness) must be reflected in sensitivity analyses (for example,
41 through the inclusion of alternative scenarios). Inputs must be fully
42 justified, and uncertainty explored by sensitivity analysis using
43 alternative input values.
 - 44 • Parameter precision – uncertainty around the mean health and cost
45 inputs in the model. Distributions should be assigned to characterise

1 the uncertainty associated with the (precision of) mean parameter
2 values. Probabilistic sensitivity analysis is preferred, as this enables the
3 uncertainty associated with parameters to be simultaneously reflected
4 in the results of the model. In non-linear decision models – when there
5 is not a straight-line relationship between inputs and outputs of a
6 model (such as Markov models) – probabilistic methods provide the
7 best estimates of mean costs and outcomes. Simple decision trees are
8 usually linear.

9

10 The mean value, distribution around the mean, and the source and rationale
11 for the supporting evidence should be clearly described for each parameter
12 included in the model.

13

14 Evidence about the extent of correlation between individual parameters
15 should be considered carefully and reflected in the probabilistic analysis.
16 Assumptions made about the correlations should be clearly presented.

17

18 Answer ‘yes’ if an extensive sensitivity analysis was undertaken that explored
19 all key uncertainties in the economic evaluation. Answer ‘partly’ if the
20 sensitivity analysis failed to explore some important uncertainties in the
21 economic evaluation. Answer ‘no’ if the sensitivity analysis was very limited
22 and omitted consideration of a number of important uncertainties, or if the
23 range of values or distributions around parameters considered in the
24 sensitivity analysis were not reported.

25 **2.11 Is there no potential conflict of interest?**

26 The BMJ defines competing interests for its authors as follows: “A competing
27 interest exists when professional judgment concerning a primary interest
28 (such as patients' welfare or the validity of research) may be influenced by a
29 secondary interest (such as financial gain or personal rivalry). It may arise for
30 the authors of a BMJ article when they have a financial interest that may
31 influence, probably without their knowing, their interpretation of their results
32 or those of others.”

33

34 Whenever a potential financial conflict of interest is possible, this should be
35 declared.

36

37 Answer ‘yes’ if the authors declare that they have no financial conflicts of
38 interest. Answer ‘no’ if clear financial conflicts of interest are declared or
39 apparent (for example, from the stated affiliation of the authors). Answer
40 ‘unclear’ if the article does not indicate whether or not there are financial
41 conflicts of interest.

42 **2.12 Overall assessment**

43 The overall methodological study quality of the economic evaluation should
44 be classified as one of the following:

- 1 • **Minor limitations** – the study meets all quality criteria, or the study
2 fails to meet one or more quality criteria but this is unlikely to change
3 the conclusions about cost effectiveness.
- 4 • **Potentially serious limitations** – the study fails to meet one or more
5 quality criteria and this could change the conclusions about cost
6 effectiveness.
- 7 • **Very serious limitations** – the study fails to meet one or more quality
8 criteria and this is highly likely to change the conclusions about cost
9 effectiveness. Such studies should usually be excluded from further
10 consideration.
- 11

1 APPENDIX 14: EVIDENCE TABLES FOR ECONOMIC STUDIES

2

Study ID Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost-effectiveness	Comments
BYFORD2003 UK CEA/CUA	Manual-assisted cognitive behaviour therapy (MACT) – patients are given a manual and offered up to 7 treatment sessions of CBT with a trained therapist over 3 months versus Treatment as usual (TAU)	Population: Patients with history of recurrent deliberate self-harm and no requirement for inpatient psychiatric treatment. Multi-centre RCT: MACT (n=197) TAU (n=200) Source of clinical effectiveness data: Single RCT (Tyrer et al. 2003) Source of resource use: RCT – CSRI and patient questionnaire Source of unit costs: UK national sources	Costs: Hospital services, community health services, social services, voluntary sector services, community accommodation, criminal justice system, productivity losses, patient living expenses Results: Total Costs per patient MACT: £13,454 (SD £5,313) TAU: £14,288 (SD £7,669) Outcomes: Primary outcome was proportion of patients who experienced an episode of self-harm during 12-month follow-up. QALYs were also estimated from EQ-5D utility scores. Results: % of patients with a self-harm episode was 7% lower in the MACT group QALYs were 0.0118 lower in the MACT group	Cost of a 1% reduction in the % of patients with a repeat self-harm episode was -£120 using MACT. Thus, MACT was dominant strategy. Incremental cost per QALY gained was £66,000 using TAU. CEACs showed >90% probability that MACT was more cost-effective than TAU (using % self-harming). Using cost per QALY threshold < £66,000, MACT had higher probability of being cost-effective	Perspective: Societal Currency: UK£ Cost Year: 1999/2000 Time horizon: 12 months Discounting: Not applicable Funded by: UK MRC

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CONSULTATION DRAFT

Study ID Country Study type	Intervention details	Study population Study design Data sources	Costs: description and values Outcomes: description and values	Results: Cost-effectiveness	Comments
BYFORD1999 UK CEA	Home-based social work intervention (in addition to routine care) - four intensive, family-centred home-based intervention sessions. Versus Routine care (routine clinical assessment and psychiatric care - out-patient clinic visits)	Self-poisoned young people (age 10-16) who have been referred to mental health care teams with diagnosis of self-poisoning Study design: RCT Home-based social work (n=85) Routine care (n=77) Data sources: Single study based on community sample in Manchester Source of unit costs: UK national sources	Costs: NHS (assessments, intervention sessions, outpatient, inpatient, intensive care, staff - GP, CPN, psychiatrist); education (welfare officers, educational psychologists); social services (social worker, residential care) Outcomes: Suicidal ideation questionnaire and hopelessness scale; family assessment device - all completed at baseline, two and six months)	Total Mean Costs: Intervention: £1,177 (excluding cost of intervention) Intervention: £1,455 (including cost of intervention) Control: £1,751 No statistically significant differences detected between intervention and control in primary outcome measures No synthesis of costs and outcomes performed by authors.	Perspective: Societal Currency: UK £ Cost Year: 1997/98 Time horizon: 6 months Discounting: NA Funded by: Dept of Health, UK