End-of-life care for people with severe mental illness: the MENLOC evidence synthesis

Ben Hannigan,1* Deborah Edwards,1 Sally Anstey,1 Michael Coffey,2 Paul Gill,1 Mala Mann3 and Alan Meudell4

1School of Healthcare Sciences, College of Biomedical and Life Sciences, Cardiff University, Cardiff, UK
2Department of Public Health, Policy, and Social Sciences, College of Human and Health Sciences, Swansea University, Swansea, UK
3Specialist Unit for Review Evidence, University Library Services, Cardiff University, Cardiff, UK
4Caerphilly, UK

*Corresponding author hanniganb@.cardiff.ac.uk

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Scientific summary

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Background

People with severe mental illness such as schizophrenia, bipolar disorder and major depression have significant comorbidities and experience higher mortality rates and reduced life expectancy than the general population. Policy across the UK includes a focus on improving end-of-life care where diagnosis is immaterial, and requires the introduction of palliative and supportive care earlier in the dying trajectory. In the context of calls for parity of esteem, referring to the expectation that care for people with mental health problems should be of the same quality as care for all other people, this project aimed to synthesise relevant research and other evidence relating to end-of-life care for people with severe mental illness. It set out to answer the question 'what evidence is there relating to the organisation, provision and receipt of care for people with severe mental illness who have an additional diagnosis of advanced incurable cancer and/or end-stage lung, heart, renal or liver failure and who are likely to die within the next 12 months?'

Objectives

The detailed objectives were to:

1. use internationally recognised, transparent, literature review approaches to locate, appraise and synthesise the relevant research evidence relating to the organisation, provision and receipt of care in the expected last year of life for people with severe mental illness who have additional diagnoses of advanced incurable cancer and/or end-stage lung, heart, renal or liver failure and who are likely to die within the next 12 months
2. locate and synthesise policy, guidance, case reports and other grey and non-research literature relating to the organisation, provision and receipt of care in the expected last year of life for people with severe mental illness who have additional diagnoses of advanced incurable cancer and/or end-stage lung, heart, renal or liver failure and who are likely to die within the next 12 months
3. produce outputs with clear implications for service commissioning, organisation and provision
4. make recommendations for future research designed to inform service improvements, guidance and policy.

Methods

The protocol for this evidence synthesis was registered with the International Prospective Register of Systematic Reviews, and the project followed guidance for undertaking reviews in health care published by the Centre for Reviews and Dissemination at the University of York.

All relevant English-language evidence was sought that specifically related to adults (>18 years of age) with severe mental illness who had an additional diagnosis of advanced incurable cancer and/or end-stage lung, heart, renal or liver failure and who were likely to die within the next 12 months. All citations were considered that addressed service organisation and provision and receipt of end-of-life care for people with severe mental illness irrespective of care setting. Citations reporting the views and experiences of service users, families and health and social care staff were also included. Following consultation with members of a project stakeholder advisory group, 'severe mental illness' was defined as including those with (but was not limited to) schizophrenia, schizophrenia spectrum and other psychotic...
disorders, schizotypal and delusional disorders, bipolar affective disorder, bipolar and related disorders, major depressive disorder and disorders of adult personality and behaviour. Searches were not made for studies into mental and behavioural disorders due to psychoactive substance use or for studies into dementia or other neurodegenerative diseases, and materials reporting on mental health problems experienced subsequent to receipt of a terminal illness diagnosis were excluded. Types of evidence sought included quantitative research, qualitative research and relevant non-research material, including UK policies and guidelines and reports of international practice initiatives and clinical case studies.

Following the development and testing of a search strategy, comprehensive searches were conducted across 10 databases: MEDLINE, PsycInfo, EMBASE, Health Management Information Consortium, Allied and Complementary Medicine Database, Cumulative Index to Nursing and Allied Health Literature, Cochrane Central Register of Controlled Trials, Applied Social Sciences Index and Abstracts, Database of Abstracts of Reviews of Effects and the Web of Science. Supplementary searching was undertaken to identify additional material including grey literature. This included the use of online searches and the targeted searching of organisational websites and of journal tables of contents. Reference lists of included studies were scanned, and forward citation tracking was performed using the Web of Science.

All citations were independently assessed for relevance by two members of the review team using titles and abstracts, with disagreements resolved through discussion with a third reviewer. When a citation appeared to meet the inclusion criteria, or where a definite decision could not be made based on the title and/or abstract alone, the full text was retrieved. Two reviewers screened each retrieved citation for inclusion using a purposely designed form, with disagreements resolved through discussion with a third reviewer.

Included research items and case studies were appraised by two reviewers using Critical Appraisal Skills Programme checklists, or alternatives, if necessary, to reflect the type of material retrieved. Disagreements were resolved following discussion with a third reviewer. Policy and guidance documents retrieved were not appraised for quality. Following appraisal, demographic data from research items and case studies were extracted into tables and checked by a second reviewer. The full text of research items and case studies, and relevant extracts from policy and guidance documents, were uploaded to the software program NVivo 12 (QSR International, Warrington, UK). All items uploaded were subjected to line-by-line coding followed by two thematic syntheses: the first drawing on included research, policy and guidance items and the second drawing on included case studies. As no intervention studies were included in the review, no meta-analyses were performed. In the case of research items, confidence in synthesised findings was assessed by two reviewers, using the Grading of Recommendations, Assessment, Development and Evaluation (GRADE) and the Confidence in the Evidence from Reviews of Qualitative Research (CERQual) approaches.

Results

A total of 11,904 citations were initially retrieved through database searching and other methods. Following screening and the addition of relevant grey literature, a total of 104 publications were included in the final synthesis, comprising 34 research publications, 42 case studies and 28 non-research items. Twenty-five of the 42 case studies met either seven or all eight of the quality criteria, with eight meeting half or fewer. All included cohort studies were of acceptable quality, as was the quality of most of the descriptive studies and the survey components of the included mixed-methods studies. The quality of the majority of the qualitative studies, and of the qualitative component of the mixed-methods studies, was high.
Research, policy and guidance material was synthesised using four themes:

1. Structure of the system, which addressed the broad shape and structure of the mental health and end-of-life care systems and had four subthemes – policy and guidance; separate commissioning, management and organisation; partnership; and no right place to die.
2. Professional issues, which addressed professional practice and had four subthemes – relationships between health-care professionals and people with severe mental illness, mental health professionals doing end-of-life care, end-of-life care professionals doing mental health care, and training and education.
3. Contexts of care, which addressed the organisation, provision and receipt of care and had three subthemes – managing the interface between mental health and end-of-life care, health-care services and treatment utilisation in the last year of life, and meeting individual and family needs.
4. Living with severe mental illness, which addressed the individual and social characteristics of patients and had three subthemes – complexities of end-of-life care, familiarity and trust, and recognising physical decline.

Case study material was synthesised using five themes:

1. diagnostic delay and overshadowing
2. decisional capacity and dilemmas
3. medical futility
4. individuals and their networks
5. care provision.

Conclusions

A high degree of confidence was judged to apply to 10 out of the 52 GRADE and CERQual synthesis summary statements associated with the included research material, distributed across all four major themes (structure of the system, professional issues, contexts of care and living with severe mental illness). All 10 were summary statements synthesised from generally well-conducted, relevant studies in which there was a high degree of coherence. A moderate degree of confidence was judged to apply to 32 of the statements, denoting concerns relating to one or more of the dimensions assessed in the underpinning evidence (methodology, coherence, relevance and adequacy), with the confidence in the remaining 10 summary statements judged as being either low or very low. The purpose of assessing confidence in summaries of synthesised findings is to better support decisions by policy-makers, managers and senior practitioners, including in the areas of policy and guideline development. Drawing on the evidence summary statements for which there was a high degree of confidence, the key implications for policy, services and practice are as follows:

1. This evidence synthesis points with a high degree of confidence to the importance of formal and informal partnership opportunities being taken and encouraged. Partnerships can involve the building of coalitions across the whole system, including mental health, end-of-life, primary care, social care and other services. This is necessary to support the exchange of information during the integrated care of people with severe mental illness at the end of life. In a context in which there is often ‘no right place to die’ and in which mental health staff are often poorly equipped to care for people at the end of life, and in which people with severe mental illness at the end of life face frequent moves between services, finding ways of supporting people to die in the locations of their choice is a priority.

2. This synthesis also has implications for professional practice. Many people with severe mental illness have limited social networks and little or no family contact, but even though mental health staff value the quality of their relationships with patients, some find it difficult to invest in
relationships with people with severe mental illness at the end of life because of the upset caused when patients are transferred to other facilities for end-of-life care. Mental health staff, many of whom find talking with patients about death and dying difficult, find that when opportunities to discuss these topics are found patients are receptive. In the case of health-care professionals working in end-of-life care, stigmatising and prejudicial attitudes towards people with severe mental illness and people who are homeless can affect end-of-life decision-making. All of these summary statements have clear implications for the future education, support and supervision of all care staff working across both the mental health and the end-of-life care systems.

3. A high-confidence synthesis summary from the contexts of care domain is that programmes and services for people with severe mental illness at the end of life require a comprehensive team approach incorporating symptom relief, psychological and psychosocial support, and spiritual care. Comprehensive services of this type are exactly as should be expected by all members of the population, but the importance of this for people with severe mental illness at the end of life is worth restating for the purposes of promoting parity of esteem. Capable advocates are able to increase the referral of people with severe mental illness at the end of life to palliative care services, and to help make sure that palliative care is provided and received. Not having an advocate means that people with severe mental illness who lack social and family support risk becoming ‘lost in the system’. Taken together, these synthesis summaries have important implications for the identification of roles for members of the care team in co-ordinating services across boundaries, advocating for and on behalf of patients, and providing direct care.

4. A final high-confidence summary statement is derived from the evidence synthesised in the area of living with severe mental illness. This review has found that the timely provision of palliative care can be hindered when people with severe mental illness, and particularly those who are homeless, receive delayed diagnoses of their end-of-life-related conditions. This has implications for the proactive provision of physical health care to groups of people who might not recognise the seriousness of their condition and who might miss out on routine health assessments.

Few UK studies have been conducted into end-of-life care for people with severe mental illness, and, internationally, few studies have included patients, family members or other unpaid carers. No intervention studies were found for inclusion in this synthesis. In this context of a relative paucity of research evidence, the key recommendations for future studies are as follows:

1. Patient and family-facing studies should be commissioned to examine the experiences of people with severe mental illness at the end of life, and the experiences of their surrounding paid and unpaid carers and those important to them, to establish the factors helping and hindering care in the specific UK context.

2. A programme of research should be commissioned comprising studies that explicitly co-produce, introduce and evaluate new ways of providing and organising end-of-life care for people with severe mental illness with both cancer and other life-threatening conditions. This programme should include studies involving support for structurally disadvantaged groups, including people with severe mental illness at the end of life who are also homeless or who are in prison. Candidate interventions include advanced care planning, advocacy and improved education for professionals, along with the development of new or enhanced roles for practitioners and the introduction of models of integrated provision spanning the mental health, end-of-life and related care systems.

**Limitations**

Only English-language items were included, and a meta-analysis could not be performed.
Future work

This project is intended as the start of a programme of research into an important, but perhaps neglected, area.

Study registration

This study is registered as PROSPERO CRD42018108988.

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