End-of-life care conversations with heart failure patients: a systematic literature review and narrative synthesis

Stephen Barclay, Natalie Momen, Steve Case-Upton, Isla Kuhn and Elizabeth Smith

ABSTRACT

Background
Current models of end-of-life care (EOLC) have been largely developed for cancer and may not meet the needs of heart failure patients.

Aim
To review the literature concerning conversations about EOLC between patients with heart failure and healthcare professionals, with respect to the prevalence of conversations; patients’ and practitioners’ preferences for their timing and content; and the facilitators and blockers to conversations.

Design of study
Systematic literature review and narrative synthesis.

Method
Searches of Medline, PsycINFO and CINAHL databases from January 1987 to April 2010 were conducted, with citation and journal hand searches. Studies of adult patients with heart failure and/or their health professionals concerning discussion of EOLC were included; discussion and opinion pieces were excluded. Extracted data were analysed using NVivo, with a narrative synthesis of emergent themes.

Results
Conversations focus largely on disease management; EOLC is rarely discussed. Some patients would welcome such conversations, but many do not realise the seriousness of their condition or do not wish to discuss end-of-life issues. Clinicians are unsure how to discuss the uncertain prognosis and risk of sudden death; fearing causing premature alarm and destroying hope, they wait for cues from patients before raising EOLC issues. Consequently, the conversations rarely take place.

Conclusion
Prognostic uncertainty and high risk of sudden death lead to EOLC conversations being commonly avoided. The implications for policy and practice are discussed: such conversations can be supportive if expressed as ‘hoping for the best but preparing for the worst’.

Keywords
communication; death; heart failure; palliative care.

INTRODUCTION

Heart failure is an unpredictable, progressive, and incurable condition. Around 1 million UK citizens and 5 million US citizens are estimated to be living with heart failure: 1% of the general population and 15% of those aged over 80 years.\(^2\) Heart failure is a leading cause of hospital admissions,\(^2\)\(^4\) and a substantial drain on healthcare resources;\(^3\) it is mentioned on one in eight US death certificates.\(^4\)

The prognosis associated with a diagnosis of heart failure is poor, worse than for many cancers;\(^2\) 38% of patients are dead within 1 year of diagnosis and 60% within 5 years.\(^4\)\(^5\) Around 50% of deaths are sudden, especially in the less severe stages, from arrhythmias or ischaemic events;\(^5\) many of these patients are reported to have had a good quality of life in the month before death.\(^5\) Progressive pump failure is the more common mode of death in advanced

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The palliative care needs of heart failure patients were first recognised in NHS policy in 2000, and were described as a ‘radical new departure’ for palliative care services. In 2003, national guidelines acknowledged considerable unmet need for palliative care in heart failure, especially in planning for the future and end-of-life care (EOLC). Community-based heart failure nurses have been in place since 2003: their focus is primarily on optimising medical management and admission reduction, and in some areas also include palliative care. The 2004 national guidelines for Supportive and palliative care for advanced heart failure were largely based on guidelines for cancer, and highlighted the need for advanced communication skills training for clinicians. The first step of the 2008 NHS EOLC strategy ‘End of life care pathway’ is entitled ‘Discussions as the end of life approaches’. While recognising that some may not wish to hold such discussions, and acknowledging that heart failure patients’ trajectories to death are much more varied than previously conceptualised, the strategy also calls for a significant culture shift within the public and the NHS towards more open communication about the end of life. There is increasing debate as to whether a ‘one size fits all’ approach to EOLC, based on the needs of cancer patients, is appropriate. The national audit of people admitted to hospital with heart failure highlights the importance of specialist cardiology teams in managing acute episodes; long-term care is largely undertaken in primary care.

Discussing end-of-life issues with heart failure patients is challenging. The very use of the term ‘heart failure’ may be unclear and frightening to patients, who often have limited understanding of the nature and seriousness of their condition; given the technical issues involved and the complexity of drug regimes, many defer to their clinicians, preferring a passive role in decision making. Clinicians often have a treatment imperative that makes it difficult for them to face the limitations of modern medicine and introduce EOLC issues. Prediction of the time of death is almost impossible, confounding even the best prognostic models: in one study more than half of those who died within 3 days had been estimated to have a prognosis of over 6 months. Patients may have been close to death on several occasions, and seek hope through a positive reconstruction of the threat to life. Although most clinicians believe patients should be told the truth, many withhold information or avoid the topic in practice; prognostic uncertainty, time pressures, lack of communication skills training, feeling of medical failure, uncertainty about timing and content, and fear of upsetting patients have all been suggested as contributing to a reluctance to address EOLC issues. Although guidelines recommend frank conversations, and in the US discussions of advanced directives are legally mandated for all hospitalised patients, in practice such conversations are rare for patients with a wide range of life-limiting illnesses.

Much EOLC research has been undertaken with mixed samples of patients with cancer, heart failure, chronic obstructive pulmonary disease (COPD), and other life-limiting illnesses. This literature reveals that many ‘EOLC conversations’ are largely limited to advanced directive paperwork and choices for resuscitation rather than communication about goals and future care options. There is a low level of agreement between doctors and patients, and doctors and family members, as to whether EOLC conversations have taken place at all, and discrepancy between these groups regarding their perception of the amount of information exchanged; this raises questions concerning the reliability of clinician reports and the adequacy of the form and content in which clinicians discuss EOLC.

This systematic literature review develops and updates that undertaken in 2004 by Parker and colleagues, whose review of patients’ views and experiences of end-of-life conversations largely comprised studies of patients with cancer. This review focuses exclusively on studies of patients with heart failure and includes all publications to date.

**Aims**
The aims of the study are to review the literature...
Box 1. Summary of search strategy.

<table>
<thead>
<tr>
<th>Disease</th>
<th>AND Discussions</th>
<th>AND End of life</th>
</tr>
</thead>
<tbody>
<tr>
<td>heart failure</td>
<td>approach OR communicat* OR consult* OR inform* OR introduce OR mention OR raise OR talk OR verbalise OR vocalise</td>
<td>advanced care plan</td>
</tr>
<tr>
<td>cardiac rehabilitation</td>
<td>Conversation</td>
<td>death OR die OR dying</td>
</tr>
<tr>
<td>cardiac patients</td>
<td>Address</td>
<td>decision making</td>
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<tr>
<td></td>
<td>Discuss</td>
<td>DNR</td>
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<td></td>
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<td>end of life</td>
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<tr>
<td></td>
<td></td>
<td>hospice</td>
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<td>palliative care</td>
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</tbody>
</table>
|                          |                                          | treatment refusal        |}

The search terms varied slightly for each database searched.

Concerning conversations about EOLC between patients with heart failure and healthcare professionals, with respect to:

- the prevalence of conversations;
- patients’ and practitioners’ preferences for their timing and content; and
- the facilitators and blockers to conversations.

**METHOD**

A search of CINAHL, Medline and PsycINFO databases between January 1987 to March 2010 was undertaken. Box 1 summarises the search terms used.

Inclusion criteria were: articles published in peer-reviewed journals, written in English, reporting studies of adult patients with heart failure and/or their healthcare professionals concerning discussions of care at the end of life. Exclusion criteria were: studies of knowing or telling the diagnosis, understanding treatment, symptom management, prognostication, patients who are unconscious or lack capacity, patient — family communication, discussion articles, guidelines, and theory or opinion pieces with no new empirical data. Conversations concerning deactivation of implanted cardiac defibrillators were also excluded due to the rarity of their current use and the very specific nature of the EOLC issues involved.45

Devising a search strategy was very challenging due to a lack of MeSH (medical subject heading) terms for this topic area, as reported by Parker et al in their earlier review.47 The information technologist developed the database search strategy with the team; given the diffuse search terms involved, this generated 9576 titles that were screened by one researcher to exclude articles that were clearly not pertinent. Two reviewers read 698 abstracts independently to identify potentially relevant papers, with any disagreements resolved by discussion; 106 papers were then read in full by two reviewers independently, of which 23 were agreed to meet study criteria. Four studies each yielded two included papers: Agard et al49 and Agard et al50, Barnes et al51 and Gott et al52, Boyd et al53 and Murray et al54 and Harding et al55 and Selman et al56. Further papers were sought by checking references and searching the citations of included papers (yielded...
16 papers), and hand searches of the European Journal of Heart Failure and Palliative Medicine between the above dates (yielded seven papers): these 23 additional papers were read in full by two reviewers but none were included. Figure 1 shows the process.

Empirical data from the results sections of each paper that were pertinent to the review questions were recorded in a data-extraction form and entered into NVivo for qualitative analysis; authors’ comments in discussion sections of papers were not included in data extraction or synthesis. Framework analysis was employed,\(^57\) using a coding frame derived from the review questions, with discussion of emergent subthemes at regular team meetings: two researchers coded the extracted data from each paper independently, resolving disagreements by discussion. Data synthesis employed a narrative approach,\(^58\) this descriptive qualitative approach is now widely used in synthesis of heterogeneous and predominantly qualitative studies.

Each paper was weighted for its overall contribution towards answering the review question using Gough’s ‘weight of evidence’ criteria (Box 2).\(^29\) Table 2 summarises the included papers, with their weighting on these criteria.

**RESULTS**

**Are end-of-life care discussions being held?**

Eleven papers reported heart failure patients’ experiences of the prevalence of EOLC discussions. Two (from the same study) found no patients had discussed their EOLC preferences,\(^71\)\(^,\)\(^73\) nine papers reported that few patients had discussed prognosis,\(^51\)\(^,\)\(^52\)\(^,\)\(^67\)\(^,\)\(^74\) EOLC,\(^52\)\(^,\)\(^53\)\(^,\)\(^54\)\(^,\)\(^59\) cardiopulmonary resuscitation or other life-sustaining interventions,\(^3\)\(^,\)\(^60\)\(^,\)\(^71\) or plans for future care.\(^52\)\(^,\)\(^71\)\(^,\)\(^74\) A uniform picture emerges that the great majority of patients with heart failure do not perceive that they have had a discussion with their healthcare professionals concerning the end of life.

In contrast, two studies of medical records reported most patients had had EOLC discussions. In one, these conversations focused on disease-modifying therapy rather than EOLC.\(^71\) The second scored lowest on weight of evidence, for reasons outlined in Table 2.\(^73\)

**Patient attitudes towards end-of-life care discussions**

Patients have diverse attitudes towards conversations with healthcare professionals. Some welcome these conversations. They desire more information concerning prognosis,\(^55\)\(^,\)\(^60\)\(^,\)\(^63\)\(^,\)\(^67\)\(^,\)\(^71\)\(^,\)\(^74\) resuscitation,\(^67\) and how their condition is likely to progress,\(^49\)\(^,\)\(^50\)\(^,\)\(^71\) as this allows them to put their affairs in order and make plans for their families.\(^50\)\(^,\)\(^52\)\(^,\)\(^71\) An opportunity to discuss their fears about the future is reassuring;\(^52\)\(^,\)\(^71\) for some the knowledge that death could be sudden is welcomed, as this is their preferred mode of death.\(^52\)

Others do not wish to have these conversations. They rarely think about death,\(^50\)\(^,\)\(^72\) and prefer not to think about their prognosis,\(^50\) they do not regard end-of-life issues as relevant to them,\(^77\) seeing their condition as part of growing old.\(^51\) They accept a low level of knowledge about their illness and do not view themselves as capable of understanding it, preferring to leave medical issues to their professionals.\(^50\) Some explicitly do not want prognostic information,\(^52\) and avoid the subject when raised by doctors,\(^51\) preferring to enjoy the present without conversations that will cause worry to themselves\(^50\)\(^,\)\(^52\) or their families,\(^52\) and a loss of hope.\(^50\)\(^,\)\(^53\)\(^,\)\(^66\)\(^,\)\(^71\) Others have mixed and ambivalent views, having some awareness but not wishing to openly acknowledge their poor prognosis.\(^50\)\(^,\)\(^66\)

When conversations are desired, patients want these to be held sensitively,\(^50\)\(^,\)\(^55\) with honesty,\(^56\)\(^,\)\(^60\)\(^,\)\(^65\) and repeated opportunities to talk.\(^56\) Patients are concerned that they may not be able to process information when feeling unwell,\(^66\) and may be afraid to ask questions.\(^55\) being reluctant to put doctors in uncomfortable positions.\(^55\) They fear that doctors will not want to talk,\(^53\)\(^,\)\(^66\) or will only give incomplete information.\(^55\)\(^,\)\(^67\)

**Patient preferences for the timing of conversations**

The few studies that have investigated when patients would like to have these conversations reveal a dilemma. Patients are most likely to consider end-of-
life issues when unwell and in hospital,

Table 2. Summary of included papers.

<table>
<thead>
<tr>
<th>First author</th>
<th>Reference</th>
<th>Participants</th>
<th>Aims</th>
<th>Research methods used</th>
<th>Key findings</th>
<th>Weight of evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight of evidence = high</strong></td>
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</table>

| Agard 50 | Heart and Lung 2004; 33(4): 219–226 | 40 HF patients, ≥60 years, 13 NYHA stage II, 21 stage IIIa, 5 stage IIIb, 1 stage IV | To explore patients' knowledge of HF, attitudes toward medical information, and barriers to improving their knowledge | Semi-structured qualitative interview | • Most patients unaware of the meaning of HF and its poor prognosis, and content with this • 32/40 did not want prognostic information • 4/40 wanted more information about how HF would affect their lives • If patients thought of approaching death this was in the context of ageing rather than HF | M H H — H |

| Aldred 50 | J Adv Nurs 2005; 49(2): 116–124 | 10 patients with HF and their partners, ≥60 years, 3 NYHA stage II, 6 stage III, 1 stage IV | To explore the impact of HF on the lives of older patients and their informal carers | Semi-structured qualitative interview | • Most would have welcomed more information about prognosis and how the condition would progress • Commonly preoccupied with thoughts about the future • Many would have welcomed opportunity to discuss their fears with someone • Doctors perceived as being too busy to talk | H H H — H |

| Barnes 50 | Health Soc Care Community 2006; 14(6): 482–490 | 44 patients with HF, ≥60 years, NYHA stage III/IV. Primary care professionals involved in HF management from these patients' practices (39 GPs, 37 nurses, 2 health visitors, 1 nursing home manager) | To explore attitudes of older people and primary care professionals toward communication of diagnosis, prognosis and symptoms in HF | Qualitative interviews with patients. Focus groups with healthcare professionals | • Few patients had discussed prognosis with any health professional. • Several patients preferred not to know about HF, as that would cause them worry • Professionals found prognostic uncertainty hindered discussion • GPs found it difficult to diagnose HF • GPs reluctant to discuss terminal nature of HF | H H H — H |

| Borbasi 50 | Austr Crit Care 2005; 18(3): 104–113 | 17 nurses caring for end-stage HF patients, in homes and hospices | To understand nurses' experiences of caring for patients dying from HF | In-depth open-ended interviews | • 'Good death' seen as: patient understands death is close, accepts this, and plans for the end of life • 'Bad death' seen as: unexpected death, patient unwilling to accept death approaching, fights all the way, unprepared for death | M H H — H |

continued ...
Healthcare professionals’ attitudes to end-of-life care discussions

Healthcare professionals find it difficult to establish a diagnosis of heart failure at times, and then struggle to find a vocabulary to explain the condition. They see prognostication in heart failure as very difficult, given the uncertain disease trajectory and that comorbid conditions may be a more probable cause of death in light of the potential for a catastrophic event such as sudden death, some feel unable to discuss future plans. Some do not themselves realise the terminal nature of heart

### Table 2 continued. Summary of included papers.

<table>
<thead>
<tr>
<th>Author</th>
<th>Source</th>
<th>Study Design</th>
<th>Participants</th>
<th>Setting</th>
<th>Data Collection Method</th>
<th>Data Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boyd</td>
<td>Eur J Heart Fail 2004; 6: 585–591</td>
<td>18 patients with NYHA stage IV HF</td>
<td>18 patients with NYHA stage IV HF</td>
<td>3 months for ≤1 year</td>
<td>Focus group with 16 health professionals</td>
<td>• Few patients had discussed their wishes for EOLC with health professionals • Patients reluctant to raise these issues themselves • Health professionals found difficulty in finding vocabulary to discuss HF and avoided-end-of-life discussions due to uncertain prognosis and risk of sudden death</td>
</tr>
<tr>
<td>Brannstrom</td>
<td>Eur J Cardiovasc Nurs 2005; 4: 314–323</td>
<td>11 nurses working in an advanced home care unit</td>
<td>11 nurses working in an advanced home care unit</td>
<td>Qualitative interviews</td>
<td>• Patients unsure how to show clinicians that they want to talk • If patients are well informed, will be less anxious • Important for patient to be clear they are approaching the end of life</td>
<td></td>
</tr>
<tr>
<td>Caldwell</td>
<td>Can J Cardiol 2007; 23(10): 791–796</td>
<td>20 patients with NYHA stage II or III HF</td>
<td>20 patients with NYHA stage II or III HF</td>
<td>Qualitative semistructured interviews</td>
<td>• Patients do not want to think about end of life when well, but not able to engage with conversations when ill • Hesitate to ask about prognosis: reluctant to put them on the spot, time pressures • Want honest communication from doctors • Prefer doctors to initiate conversations</td>
<td></td>
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<tr>
<td>Gott</td>
<td>Soc Sci Med 2008; 67(7): 1113–1121</td>
<td>40 people with HF NYHA stage II–IV age ≥60 years (median age 77 years)</td>
<td>40 people with HF NYHA stage II–IV age ≥60 years (median age 77 years)</td>
<td>Semi-structured interviews</td>
<td>• 1/40 had discussed advanced care plans • Few had discussed prognosis with a clinician • Some acknowledged their limited prognosis but still did not want prognostic information • Some preferred a sudden death — avoided increasing dependency • Thinking about end of life was a source of anxiety</td>
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</tr>
<tr>
<td>Hanratty</td>
<td>BMJ 2002; 325: 581–585</td>
<td>34 doctors involved in HF care: 10 GPs, 8 cardiologists, 10 general physicians/geriatricians, 4 general medical doctors, 6 palliative care doctors</td>
<td>34 doctors involved in HF care: 10 GPs, 8 cardiologists, 10 general physicians/geriatricians, 4 general medical doctors, 6 palliative care doctors</td>
<td>Qualitative focus groups</td>
<td>• Fear saying the wrong thing, giving bad news too early, patients losing hope • Prognosis difficult: poor outlook accepted by doctors too late in the illness • End-of-life issues difficult to discuss with patients</td>
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</table>
failure, or believe that patients rarely acknowledge this. Doctors tend to focus on current aspects of medical management rather than the future, approaching heart failure as a problem to be fixed instead of a terminal illness; this may hinder communication concerning wider and longer-term patient needs. They fear alarming patients unnecessarily, creating anxiety and depression, destroying hope, and causing patients to give up the fight for life.

### Table 2 continued. Summary of included papers.

<table>
<thead>
<tr>
<th>Authors</th>
<th>Journal Year &amp; Volume</th>
<th>Study Design</th>
<th>Participants</th>
<th>Data Collection Methods</th>
<th>Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harding</td>
<td>J Pain Symptom Manage 2008; 36: 149–156</td>
<td>20 patients with NYHA class III–IV and 12 of their carers; 12 doctors and nurses working in palliative care and cardiology</td>
<td>To generate recommendations for the provision of information to HF patients and their family carers</td>
<td>Semi-structured qualitative interviews</td>
<td>• No patients had discussed disease progression or EOLC • Patients want easily comprehensible information, given directly and sensitively • Patients and carers reluctant to ask questions • Prognostic difficulties hinder conversations • Cardiologists welcome palliative care and communication skills training • Palliative care professionals welcome HF training • Need to develop shared care pathways</td>
</tr>
<tr>
<td>Home</td>
<td>Palliat Med 2004; 18: 291–296</td>
<td>20 patients with HF, 11 NYHA stage IV, 7 NYHA stage III, 2 NYHA stage II</td>
<td>To explore the experiences of patients with severe HF and identify their needs for palliative care</td>
<td>Qualitative semi-structured interviews</td>
<td>• Patients had some sense of their poor prognosis • Mixed views about wanting to know prognosis • All had thought about dying but few had discussed these issues with clinicians</td>
</tr>
<tr>
<td>Murray</td>
<td>BMJ 2002; 325: 929–934</td>
<td>20 patients with NYHA stage IV HF</td>
<td>To compare the illness trajectories, needs, and service use of patients with cancer and those with advanced non-malignant disease</td>
<td>Serial in-depth qualitative interviews, every 3 months, up to 1 year</td>
<td>• Patients had little understanding of their condition, treatment aims or prognosis • A palliative care approach was rarely apparent</td>
</tr>
<tr>
<td>Rogers</td>
<td>BMJ 2000; 321: 605–607</td>
<td>30 patients with HF admitted to hospital in past 20 months: 7 NYHA stage II, 12 NYHA stage III, 8 NYHA stage IV</td>
<td>To explore patient understanding of HF, their need for information, and issues concerning communication</td>
<td>Qualitative in-depth interviews</td>
<td>• Some patients wanted to know more about their illness and prognosis • Some wanted to make provision for death • Others had not/did not wish to acknowledge prognosis — ambivalent about learning more about their condition • Anxieties that doctors would withhold information</td>
</tr>
<tr>
<td>Selman</td>
<td>Heart 2007; 93: 963–967</td>
<td>20 patients with heart failure, 14 NYHA stage III, 2 stage III–IV, 4 stage IV, 11 family carers, 12 clinicians (6 palliative care, 6 cardiology)</td>
<td>To investigate patients’ and carers’ preferences regarding future treatment and communication between staff, patients, and carers concerning the end of life</td>
<td>Qualitative semi-structured interviews</td>
<td>• No patients had discussed end-of-life preferences with clinicians — few had discussed with family members • Cardiologists reluctant to raise end-of-life issues due to uncertain prognosis and lack of communication skills. Happy to discuss if patients raise issues</td>
</tr>
</tbody>
</table>
The communication challenges are considerable. Although healthcare professionals believe that heart failure patients have a right to be informed of their prognosis, they want to avoid giving bad news too soon, and fear saying the wrong thing. They seek to give an understanding of the severity of the
Some clinicians see a ‘good death’ in heart failure in terms of open awareness, and the patient understanding what is happening and being able to plan ahead and talk about their wishes. A ‘bad death’ is unexpected, where health professionals have not been open about what is happening, and the patient has no insight and is therefore unprepared. There is concern that cardiologists may not always provide good palliative care and that palliative care clinicians may not have the skills to manage end-stage heart failure: joint working of these two specialist teams is welcomed.

### Healthcare professionals’ preferences for the timing of discussions

There is real difficulty for professionals in judging the right time to hold these conversations. Some prefer to discuss early in the course of heart failure before the patient becomes too unwell to assimilate the information and make plans. Others are concerned about giving bad news too soon, although they acknowledge that they often accept and discuss the poor outlook too late for effective...
communication and planning.44 Many wait for patients to give cues that they wish to talk,51,53,55,62 preferring to respond to patient questions rather than initiate conversations themselves. The preference of many patients to wait for doctors to raise these issues is thus an ineffective strategy, as they very rarely do so.31

**Barriers to end-of-life care conversations**

The literature evidences a number of barriers to effective and timely EOLC conversations between people living with heart failure and their clinicians.

**Understanding of their condition: patients in the dark.**

Many patients have little understanding of heart failure;50,53,60 they rarely use the term, usually using more vague words associated with old age,52 or their other comorbid conditions.51-53 Some are content with a small amount of knowledge, preferring to leave medical issues to doctors.50 Many have an erroneous view of heart failure as a benign condition compared to cancer,50,51,52,53,61-63 have unrealistic hopes of survival,52,61 do not understand their poor prognosis,51,75 or are reluctant to accept that no further intervention is appropriate.51 Clinicians may find establishing the diagnosis difficult, especially in primary care;51 they struggle to find appropriate language to explain the condition to patients, wishing to protect them from the negative connotations and anxiety of the term ‘failure’.51,54 Euphemisms may be used,51,52 which some patients appreciate.49 Professionals may be reluctant to acknowledge the terminal nature of heart failure,49 focusing on medical aspects of treatment rather than broader and longer-term issues.55,62

**Unpredictability of the future: patients living with uncertainty.**

Clinicians find these conversations challenging as the future is so uncertain. They view providing an accurate prognosis as very difficult, if not impossible,50,51,53,56,62,64 given the unpredictability of heart failure, that many patients are older and may die from other comorbid conditions,51 and the risk of sudden death.50

**Anxiety-provoking conversations: patients fear discussing end-of-life care.**

Some patients are aware of the poor prognosis associated with heart failure but elect not to talk about the end of life, fearing generating anxiety and loss of hope.50,53,56,60,62,64 Clinicians are similarly reluctant to raise end-of-life issues for fear of causing unnecessary worry early in the illness,51,56 or loss of hope,51 especially given the lack of EOLC services for non-cancer patients.54

**Strengths and limitations of the study**

This is the first systematic review to synthesise the
literature concerning patients’ and clinicians’ views of EOLC discussions in heart failure. Knowledge in this area is recent: no paper published before 1999 was identified. While the search strategy was difficult to create, it appears to have been effective: searching reference lists and citations of included papers and hand searches of two key journals did not identify any additional papers included in the synthesis. Most of the included studies were qualitative: the smaller number of quantitative studies were given a lower weight of evidence, being retrospective or limited data being available from routine sources such as medical records. We did not search the grey literature but have set the synthesis in the context of policy documents and guidelines.

Of the 23 papers, thirteen report data from patients, six from health professionals and four from both groups. The uniform view of patients is that these conversations occur rarely, if at all. Two medical record review studies report frequent occurrence of conversations. One revealed little EOLC content. The other supplied little content information beyond records indicating ‘advanced planning discussions and preferred place of death’, supplemented by clinician recall some months after the death: this paper was given the lowest weight of evidence scoring. As previously noted, there is a large discrepancy between doctors’ and patients’ reports of whether EOLC conversations have taken place at all and the amount of information given, an issue that would benefit from further research.

**Comparison with existing literature**

The classic work on ‘Awareness Contexts’ that Glaser and Strauss developed with cancer patients near the EOL gives a useful structure for understanding the communication challenges facing heart failure patients and their clinicians.

- Many patients are in Closed Awareness. They do not understand the nature and severity of the term ‘heart failure’, which they often understand in terms of ageing processes or co-morbid conditions. Thoughts of approaching death are simply not part of their reality of living with heart failure. Some have survived being close to death during resuscitation or exacerbations and do not see why they should not do so in the future. Their clinicians are aware of the poor prognosis but avoid the difficult conversations, in a way that has been described as reminiscent of cancer care decades ago.
- Others are in Suspicion Awareness, wanting to ask questions about the future, but feeling unable to do so.
- Mutual Pretence, where both patients and clinicians are aware of the poor outcome but avoid discussing it, is perhaps less common since many patients have poor understanding of their condition.
- Open Awareness, where open conversations concerning EOLC occur, also appears to be rare in heart failure. Largely shaped by a cancer care model, this is the ideal situation set out in the NHS EOLC Strategy, but appears to be of limited applicability in heart failure.

**Implications for policy and practice**

Recent years have seen dramatic therapeutic advances in the management of heart failure that have significantly improved patients’ survival and quality of life: in the interventionist culture of Cardiology, there is a danger that issues of EOLC are only considered too late in the illness, when active options have been exhausted. Although many clinicians believe they should discuss the deactivation of implantable defibrillators with patients, in practice they find these conversations particularly difficult and rarely do so. As EOLC comes to the fore across the NHS, there is a growing tension between active management and the need to communicate an uncertain and poor prognosis: a double message that is difficult for clinicians to communicate and for patients to receive.

This review addresses a number of the recommendations of recent guidelines and policy documents concerning EOLC in heart failure, which may be summarised thus:

- **What?** It is recommended that patients with heart failure and their carers should have sufficient opportunities to discuss their uncertain prognosis, the risk of sudden death and their priorities and preferences for care. A balance of optimism and realism is recommended avoiding either embracing or negating hope, but acknowledging the uncertainty. Some patients may be confused by what appears to be a mixed message and find the emotional and cognitive dissonance involved difficult. This review indicates that in practice many patients do not have these discussions despite some indicating a wish to do so. The uncertainty of prognosis and fear of causing patients anxiety are major barriers.
- **When?** These conversations are recommended to be offered at all stages of the disease trajectory as a process of continuing dialogue over time at times of the patient’s own choosing, and at times of decompen- sation, or when needed to plan care. In practice it is very difficult to judge when the time is right: some do not feel able to
hold these discussions when unwell\textsuperscript{11,17,58} while others prefer not to consider these issues when well.\textsuperscript{56}

- **How?** Communication should be open, sensitive and honest, at the patient’s own pace,\textsuperscript{11} using an ‘ask, tell, ask’ approach\textsuperscript{57,61} where the patient’s desire for information is first elicited, followed by small amounts of information given at one time, then checking their understanding and desire to talk further. The communication challenges are formidable, especially in the light of sudden death in half of patients; these are advanced communication skills, honed by training and experience. Further research is called for concerning how to best elicit patients’ desire for information and for involvement in decision-making.\textsuperscript{79} In practice, many clinicians do not feel they have the necessary communication skills for these conversations.\textsuperscript{56,73}

- **Who?** Conversations should be held with a clinician with whom there is an established relationship and who has a commitment to personal continuity of care, as a process over time.\textsuperscript{66} Such conversations are the remit of a senior member of the heart failure team or the patient’s GP. The study would argue that it is inappropriate for medical staff unfamiliar to the patient to tell the patient that they cannot predict what will happen next, apart from it is likely to be bad, including sudden death. In practice, this frequently occurs.\textsuperscript{29,55,73}

Many still think of palliative care in terms of a system of care delivery involving specialists, referrals and hospices: it is rather a philosophy and approach to care involving supporting patients throughout their illness to the EOL. Such care is delivered by many health and social care professionals,\textsuperscript{41} although often not recognised as such. In practice, while the heart failure team are often involved around the time of diagnosis or admission for exacerbation,\textsuperscript{79} their focus is on medical management more than longer-term issues, and they rarely follow up patients long-term, especially older people with other comorbidities. In many cases the GP might be the most appropriate person, given the long-term doctor—patient relationships in primary care, although it must be admitted that this rhetoric of personal continuity of care has been a declining reality over recent years. The heart failure reviews in the Quality and Outcomes Framework for general practice focus on drug management issues and do not include longer term and EOL planning.

The role of palliative care specialists remains unclear\textsuperscript{82} and is often reserved for those with complex problems or poorly managed symptoms\textsuperscript{21,84} or at the time of admission with an acute exacerbation.\textsuperscript{87} Models of joint working have been developed\textsuperscript{87,88} commonly with the heart failure nurse as the lead clinician with palliative care consultancy\textsuperscript{89} rather than heart failure orientated palliative care.\textsuperscript{90} A recent survey found that although 90% of palliative care services say they accept heart failure patients, only 6% of patients in the National Heart Failure Audit were referred to palliative care.\textsuperscript{4}

Clinicians are unsure how to discuss the uncertain prognosis and risk of sudden death, and fear causing premature alarm and undermining hope. ‘It is humane and sufficient in some cases to allow patients to be unaware of the serious nature of their condition … and not to harm patients by providing stressful information that is not requested’.\textsuperscript{52}

Although such an approach may be consistent with the bioethical principles of beneficence and non-malificence, it conflicts with the principle of autonomy which recognises the patient’s right to make informed choices about their care. When conversations about the future do take place, they focus more on issues of disease management than EOLC. Patients who wish to talk wait for their doctors to raise EOLC issues, while clinicians wait for cues from patients before raising these topics. The consequence is that ‘the elephant in the room’\textsuperscript{100} is rarely addressed in practice.

**Conclusion**

Heart failure patients need clinicians to be sensitive to their individual wishes for EOLC conversations, which change as events and time unfolds. Clinicians who tend to avoid such difficult conversations need to learn to pick up the cues that the patient would like to talk further. Those who view open awareness as the best way to prepare for the EOL need to live with the internal tensions created\textsuperscript{79} when patients are reluctant to discuss this. A dual approach of continuing active treatment while acknowledging the possibility of death, at least to ourselves, is perhaps the way forward: ‘hoping for the best but preparing for the worst’.\textsuperscript{79}

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