Dying of lung cancer or cardiac failure: prospective qualitative interview study of patients and their carers in the community
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Abstract
Objective To compare the illness trajectories, needs, and service use of patients with cancer and those with advanced non-malignant disease.
Design Qualitative interviews every three months for up to one year with patients, their carers, and key professional carers. Two multidisciplinary focus groups.
Setting Community based.
Participants 20 patients with inoperable lung cancer and 20 patients with advanced cardiac failure and their main informal and professional carers.
Main outcome measures Perspectives of patients and carers about their needs and available services.
Results 219 qualitative interviews were carried out. Patients with cardiac failure had a different illness trajectory from the more linear and predictable course of patients with lung cancer. Patients with cardiac failure also had less information about and poorer understanding of their condition and prognosis and were less involved in decision making. The prime concern of patients with lung cancer and their carers was facing death. Frustration, progressive losses, social isolation, and the stress of balancing and monitoring a complex medication regimen dominated the lives of patients with cardiac failure. More health and social services including financial benefits were available to those with lung cancer, although they were not always used effectively. Cardiac patients received less health, social, and palliative care services, and care was often poorly coordinated.
Conclusions Care for people with advanced progressive illnesses is currently prioritised by diagnosis rather than need. End of life care for patients with advanced cardiac failure and other non-malignant diseases should be proactive and designed to meet their specific needs.

Introduction
Improving care for people with advanced illnesses is a national priority. The clinical standards board for Scotland has included palliative care in its generic standards, and the national service framework for coronary heart disease has prioritised advanced disease. The model of care for cancer patients that encompasses diagnosis, treatment, and palliative care is well developed. However, patients with non-malignant disease have less access to services including specialist palliative care. Access to services should be based on need not diagnosis. In the United Kingdom the increasing number of elderly people with advanced non-malignant disease will require palliative care, both generic and specialist. Appropriate and effective modes of care that take account of the views of patients and carers need to be developed.

We compared the experiences of people with lung cancer with those of people with non-malignant disease. We chose cardiac failure as the comparison because it has a higher mortality than many cancers and its prevalence is increasing.

Methods
Participants Consultants in respiratory medicine gained outline consent from outpatients with newly diagnosed advanced inoperable lung cancer. Cardiologists and geriatricians identified outpatients with cardiac failure (New York Heart Association grade IV). The samples were chosen purposively to represent the local demography of each condition with respect to age, sex, deprivation category, living alone or with a carer, and treatment. Further details of the patients are available from the authors.

Interviews MK conducted in depth interviews at three monthly intervals for up to a year with patients and their main informal carer in the patient's home. She asked patients and their carers to talk about the main issues they were facing and their views about the care and support they were receiving. The average age of the 20 patients with lung cancer was 65 years, 15 lived with their spouse, 12 had non-small cell lung cancer, 17 were offered and 16 received chemotherapy or radiotherapy, and five were alive at the end of the study. The average age of the 20 patients with cardiac failure was 74 years, the commonest cause was ischaemic heart disease, 11 lived with a carer, and seven were alive at the end of the study. The average World Health Organization performance status at first interview was 2.0 for lung and 2.6 for cardiac patients, where 0 represents unrestricted activity and 4 represents complete disability.

A focus group for each diagnostic group allowed key health and social care professionals, a chaplain, patients, informal carers, and voluntary sector representatives to discuss the issues raised by the interviews and consider alternative service options.

Analysis Interviews and focus groups were tape recorded and transcribed. We used the qualitative computer package QSR NVivo and the techniques of narrative analysis. A second researcher (AW) read all the transcripts and assisted with coding. Regular review and discussion of the evolving themes by the multidisciplinary steering group and data from the focus groups contributed to data synthesis and interpretation.
Results
The two cohorts yielded 219 interviews: 93 with patients, 53 with carers, and 73 with professionals. We examined the main differences in the illness trajectories, needs, and service use of the two groups (box).

Illness trajectories
Patients with lung cancer had various initially vague symptoms. Diagnosis was often perceived as delayed, but it was clearly understood once it had been made as was the prognosis. Side effects of treatment made people feel more ill than they had felt before treatment. Many died during or relatively quickly after a course of treatment, though a few had a longer remission.

Cardiac failure was a chronic illness with episodes of acute deterioration that often necessitated emergency admission to an acute hospital, punctuating an overall progressive decline with an unpredictable terminal phase.

Information and understanding of illness and prognosis
Patients with lung cancer had access to good quality written information and most understood their illness and its causes. Many appreciated honesty, although a few patients, carers, and professionals colluded to avoid issues related to dying. Treatment options were discussed but most patients thought they should accept the professionals' recommendations.

Patients with cardiac failure rarely recalled being given any written information, had a poor understanding of their condition, and, in the absence of chest pain, did not connect symptoms like breathlessness and oedema to their heart. Professionals described complex strategies around giving information, wanting patients to understand their illness but also wanting to protect them from the negative connotations and potential seriousness of their illness implied by cardiac “failure.” Prognosis was rarely discussed, and we found little acknowledgment that end stage cardiac failure is a terminal illness. Patients thought about dying in the context of ageing.

Most patients and carers did not feel involved in decision making or empowered to work in partnership with professionals.

Living with illness
For patients with lung cancer and their carers the prospect of death was a persistent threat. “The doctor told me that you’re actually on borrowed time with cancer.” “You’re wondering if you’re going to see tomorrow. When I first was told, that was the first thing that went through my head, How long? When? … it’s been like going to hell and back.”

Patients worried about how carers would cope and carers worried about upsetting the patient and whether they would know what to do when death did occur. “I feel more for my wife and family. It’s strange. You hear people saying that, and I never thought it was true, but you do worry more about what’s going to happen to them.” “Sometimes I wonder, Is this the end? and then I think, What will it be like, you know? How will I know? And will I know? And what will happen?” (carer).

People struggled to maintain a normal life while swinging, often in the same day, from hope to despair. Consequently, people often gave parallel accounts of trying to remain positive while also facing the real possibility of dying. “The main thing is how long I’m going to live. I just keep that to myself. And then I think, just get up girl and show them different; different, determined, positive. And then other times I just sort of weep into it. You can only do so much.” “The only thing is to try and lead an ordinary day.”

During chemotherapy or radiotherapy, regular hospital visits and troublesome side effects dominated the lives of both patients and carers. When treatment ended many people felt abandoned and unsupported. “Yesterday I just wanted to curl up in a ball and die, but I know that’s not the cancer. That’s the treatment. The treatment makes you feel so bad, and each time the after effects have lasted longer and been worse.” “I thought there would be something to follow up, even at a later date, once the treatment had finished. But seemingly, I’ve had all I can get, and now we just have to wait.”

Patients with cardiac failure and their carers experienced progressive losses of autonomy and self-
Service provision

Patients with lung cancer experienced uncertainty and emotional distress while waiting for test results and to start treatment. They lacked support at this time.

Most people were satisfied with their care and many appreciated the support of a hospital based lung specialist cancer nurse during treatment. The main practical problem was car parking. Specialist palliative care services offered hospital assessment, community support, day care, and hospice admission. Help with mobility, equipment, and financial benefits was usually available as were carers' support, sitting services, and respite care. Cancer charities and voluntary agencies were actively involved. There was some misunderstanding among patients, carers, and professionals about the roles of different professionals and agencies, which resulted in failure to access help.

General practitioners sometimes found it hard to judge when to become more actively involved. Most considered it their role to raise psychological, emotional, and spiritual issues but waited for cues, which were not always forthcoming.

Cardiac patients described poorly coordinated hospital care, lack of continuity, and failure to recognise the involvement and expertise of carers. Primary care contacts were mainly with the general practitioner. There was little planned community support. A few people had developed a long term relationship with a key professional: a consultant, general practitioner, or specialist cardiac nurse. Taking an interest, caring about the person, and good communication skills were valued. Specialist palliative care services were not involved and only a minority had access to a specialist cardiac nurse. Social services, financial benefits advice, carer support, and respite were largely absent, and information and support from cardiac charities were little used. Care was based on a medical model focused on treatment. Lack of services, failure to address end of life issues, and episodes of acute deterioration meant these patients had less opportunity to die at home. “I’m expecting it to be something catastrophic so planning and discussing it isn’t really an issue” (general practitioner).

General practitioners recognised that there were more resources for patients with cancer and felt frustrated by their own role, which seemed limited to monitoring and adjusting medication. “There’s not a lot we can do for people like him” (general practitioner).

Discussion

The contrasting illness trajectories and needs that we have identified point to a model of care for people with cardiac failure that may be different from the cancer model. Many patients with end stage chronic illnesses do not receive appropriate services because their prognosis is uncertain. They could benefit from a dual approach: active management being continued but the possibility of death being acknowledged and discussed. These patients could benefit from the continuity, multidisciplinary care, and focus on symptom control and family support that are the hallmarks of the palliative care approach. Barriers to extending specialist palliative care services include a lack of appreciation of their role by the non-cancer specialists, lack of expertise of palliative care staff in illnesses other than cancer, a fear of overwhelming workload, and much funding for palliative care services coming from cancer charities. Cardiac nurse specialists, where available, can reduce hospital admissions and improve the coordination of care. However, adequate psychosocial support is important for everyone who is coping with the social isolation and burden of chronic progressive illness. Suggestions for improving the care of these people are listed in the full version of this paper (on bmj.com).

Quality of life improvement teams in the United States have found that comprehensive end of life services are best triggered by the recognition that the patient is “sick enough that dying this year would not be a surprise.” If programmes for end of life care targeted those who “reasonably might die,” instead of focusing on a prognosis of less than six months, many more patients and their carers would benefit from proactive care. In primary care, this could include a practice register of such patients, regular patient reviews, identification of key professionals to coordinate care, and more emphasis on multidisciplinary and social support.

Our study confirmed that most people with heart failure do not understand the cause or prognosis of their disease and rarely discuss end of life issues with their professional carers. Unclear prognostic indicators and a desire to protect patients from potentially distressing information are barriers to effective communication between patients and professionals. The lessons learnt from caring for cancer patients—an individualised approach to information giving, promotion of their coping strategies, appropriate training for professionals—should be applied to those with other life threatening illnesses.

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Fish, meat, and risk of dementia: cohort study

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The role of dietary fat in dementia arouses increasing interest. Fatty acids could be involved through several mechanisms, including atherosclerosis, thrombosis, and inflammation. We evaluated whether there is a relation between consumption of fish (rich in polyunsaturated fatty acids) or meat (rich in saturated fatty acids) and risk of dementia.

Participants, methods, and results

We obtained data from the PAQUID (Personnes Agées QUID) epidemiological study of cognitive and functional ageing (www.healthandage.net/html/mm/paquid/entrance.htm). During the third wave of the study (1991-2) investigators visited 1674 people aged 68 and over without dementia and living at home in 75 parishes in southwestern France and recorded their frequency of consumption of meat and fish or seafood: daily, at least once a week (but not every day), from time to time (but not every week), never. Participants were followed up two, five, and seven years afterwards: 1416 (84.6 %) had at least one follow up visit. All the participants who had lost three points or more on the mini-mental state examination since a previous visit or were suspected of having dementia according to the criteria of the Diagnostic and Statistical Manual of Mental Disorders, third edition, revised (DSM-III-R) were visited by a neurologist to confirm the diagnosis. We calculated the incidence of dementia per 100 person years. We used a Cox proportional hazards model with delayed entry to estimate the relative risk of dementia, taking into account age, sex, and education (at least the French primary school diploma “Certificat d’Etudes Primaires” versus less education).

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