Information needs of patients with cancer: results from a large study in UK cancer centres

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Summary As part of a multi-centred study evaluating a communication skills training model for clinicians, we collected information preferences using an adaptation of Cassileth’s Information Needs questionnaire from a heterogeneous sample of 2331 patients. Results showed that 87% (2027) wanted all possible information, both good and bad news and 98% (2203) preferred to know whether or not their illness was cancer. Cross tabulation of responses revealed no significant differences in information preferences for tumour site or treatment aims but did show an effect of age and sex. The few 58/440 (13.2%) patients who stated that in general they preferred to leave disclosure of details up to the doctor, tended to be older patients more than 70 years of age (chi square = 26.01, df = 2, $P < 0.0001$), although paradoxically they still wanted to know certain specific details. In comparison to men women preferred to know the specific name of the illness (chi square = 4.9, df = 1, $P < 0.02$) and what were all the possible treatments (chi square = 8.26, df = 1, $P = 0.004$). The results from this very large sample provide conclusive evidence that the vast majority of patients with cancer want a great deal of specific information concerning their illness and treatment. Failure to disclose such information on the grounds that significant numbers of patients prefer not to know is untenable. © 2001 Cancer Research Campaign http://www.bjcancer.com

Keywords: information needs; cancer; patients preferences

Despite the publication of several quantitative studies, (Fallowfield et al, 1994; Meredith et al, 1996; National Cancer Alliance, 1996) some health professionals remain concerned about the amount and type of information to give to a patient with cancer. Would for example, the elderly widow with cancer have similar information needs to the 50-year-old professional woman with cancer? Should clinicians edit the information that they give based on intuition and past experience or should they do so only according to patients’ stated preferences?

We know that clinicians tend to underestimate the amount of information that patients require (Fallowfield et al, 1994; Degner et al, 1997) and while fewer these days are reluctant to use the word cancer, many still believe that disclosure should only be made to those patients who actively seek it. Unfortunately unless invited to ask directly, patients rarely raise important questions during a consultation. Many patients assume that the doctor would have told them everything relevant, others worry that they will appear foolish if they reveal their ignorance by asking questions, and some feel that they have already taken up too much of the busy doctor’s time (Fallowfield and Jenkins, 1999). At least two small studies of non-representative groups of patients (Cassileth et al, 1980; Fallowfield et al, 1994) have shown that patients’ information needs are substantial. This finding was also validated in a small, but carefully stratified, more representative sample of 250 patients with cancer (Meredith et al, 1996). In contrast, a recently published qualitative study of 17 patients, suggested that some may prefer to avoid disease related information at different stages during the illness (Leydon et al, 2000); although precise methodological detail is lacking about such basic issues as the representativeness of the sample which hampers interpretation of the study.

We present results from a survey of a heterogeneous sample of 2331 patients attending out-patient departments throughout the United Kingdom for consultations about cancer and its treatment, that unequivocally answers the question of how much information patients prefer to have from their doctors.

PARTICIPANTS AND METHODS

As part of a study evaluating a communication skills training model for clinicians, we collected information preferences from a heterogeneous sample of patients attending out-patient clinics within the UK. 34 hospitals were involved in the study, including large teaching hospital cancer centres and smaller district general hospitals. MREC and LREC was granted for the patients’ assessments. Inclusion criteria were broad and comprised adults who were about to see a medical, clinical or surgical oncologist for a consultation about their cancer diagnosis, treatment, prognosis or tests and routine follow-up visits.

2681 patients were approached by a member of the research team whilst waiting in out-patient clinics to see the doctor and given an information sheet explaining the study. 85% (2331) gave written informed consent to participate. The most common reasons given for non-participation were a lack of English, poor eye-sight and concerned relatives. Table 1 lists the tumour site details, aim of treatment and patient characteristics. The questionnaire is one that is widely used throughout the UK and US in previously published studies (Fallowfield et al, 1994; Meredith et al, 1996). It consists of two parts; in part one, patients were asked to choose a statement that best described their general attitudes...
and preferences about information concerning their illness. Part two consisted of a list of 7 different more specific kinds of information about illness and treatment and patients were asked to indicate whether they 1) had an absolute need, 2) would like to have or 3) would prefer not to have that information. Answers to the questions were cross-tabulated according to the patient’s age, sex, aim of treatment and cancer site. Statistical significance was assessed using the chi square test.

RESULTS

Of the 2331 patients who participated in the study, 940 (40%) were receiving curative treatment, 841 (36%) palliative treatment, 215 (9%) were in remission and for 335 (14%) treatment intent was still uncertain.

Table 1 Background details of patients (n = 2331)

| Characteristics          | Sample |
|--------------------------|--------|
| Age (years)              |        |
| <=30                     | 113 (4.8%) |
| 31–50                    | 580 (24.9%) |
| 51–70                    | 1081 (46.4%) |
| >70                      | 440 (18.9%) |
| Unknown                  | 117 (5%) |
| Sex                      |        |
| Men                      | 892 (38.3%) |
| Women                    | 1439 (61.7%) |
| Marital status           |        |
| Partner                  | 1590 (68.2%) |
| No partner               | 612 (26.3%) |
| Unknown                  | 129 (5.5%) |
| Tumour site              |        |
| Breast                   | 585 (25.1%) |
| Gastro-intestinal/colorectal | 418 (17.9%) |
| Haematological           | 181 (7.8%) |
| Lung                     | 164 (7.0%) |
| Gynaecological           | 147 (6.3%) |
| Urological               | 145 (6.2%) |
| Skin                     | 80 (3.4%) |
| CNS                      | 64 (2.7%) |
| Head & Neck              | 57 (2.4%) |
| Unknown Primary          | 164 (7.0%) |
| Other                    | 326 (14.0%) |
| Type of treatment        |        |
| Curative                 | 940 (40.3%) |
| Palliative               | 841 (36.1%) |
| Remission                | 215 (9.2%) |
| Not Specified            | 335 (14.4%) |

CROSS TABULATION OF RESPONSES

Age

There was a significant association between age and the amount of information required by the patient. Although a large proportion of patients over 70 years of age wanted as much information as possible (81%), significantly more of the older group preferred to leave details up to the doctor (13% 58/440 v 6.5% 110/1774; chi square = 26.01, df = 2, P < 0.0001). In addition, there were significant differences in response to the specific questions as shown in Table 2, although it should be emphasized that the majority of the older patients did want detailed information.

Sex

Although the majority of patients of both sexes wanted specific details of information, there were two areas where the younger women (70 years and under) were significantly different. They preferred to know the name of the illness, (974/1056 [92%] v 588/660 [89%], chi square = 4.9, P < 0.02) and all the possible available treatments 1021/1059 [96%] v 621/665 [93%], chi square = 8.26, P < 0.004).

Aim of treatment

There were no differences in specific information needs between those patients receiving curative or palliative treatment or for those who were in remission.

Cancer site

There were no differences in information needs between the different cancer sites. This was despite the fact that the largest cancer site in the sample was women with breast cancer.

The specific information needs of patients who want to leave details up to the doctor and ‘good news’ patients

Although a small percentage of the sample stated in part one that they preferred to leave everything up to the doctor or wanted only good news (7.7% and 5.4% respectively), when prompted by the items in part two of the questionnaire, the majority of patients in both groups expressed a need for specific information concerning illness and treatment. Table 3 shows the responses of all 3 groups with the data from ‘absolutely need’ and ‘would like to have’ collapsed into one category.

DISCUSSION

The results from this large survey support previous research that most patients want as much information as possible about treatments and illness. An extremely important finding was that 98% of patients needed to know whether the illness was cancer. This observation should convince health professionals that they should not withhold the truth about diagnosis on the grounds that many patients prefer not to know. Furthermore 95% wished to know what their chances of cure were, so information about prognosis should not be avoided either (Fallowfield et al, 1998). Our findings contrast with a recent qualitative study of 17 patients which suggested that patients’ strategies for coping with cancer suppress their wish for, and efforts to obtain information at different stages of their illness. Qualitative
method can provide a different perspective but they must be rigorous (Mayes and Pope, 1996). It would be wrong for health professionals to alter their practice of information giving based on such limited results. The article had so few details about the methodology utilized for sample selection and the manner in which data were collected and analysed to permit independent judgement about the conclusions. Instead of still questioning the need for giving more information we need to be developing ways to provide adequate information in a flexible and sensitive manner.

The avoidance of information often stems from myths and misunderstandings about the disease which doctors could correct with clearer explanations and thus alleviate distress. The majority of patients want to know, as we have shown but may be afraid to ask. Cross-sectional analysis of our data showed no evidence for different information needs whether patients were awaiting diagnosis, having radical treatment, were in remission or being treated palliatively. However, to ensure that patients find this attitude in 10 or 20 years time, as medical information becomes more accessible to the general public. Clinicians have already commented on the increase in the number of ‘internet patients’ attending clinics, who are sometimes more informed about new treatments than the doctor (Thompson, 1999).

Recent literature repeatedly states that patients, whatever age, want to be kept well informed about their illness. The findings are similar to be kept well informed about their illness. The findings are similar to those over 70 years patients indicated a preference to leave details up to the doctor, most (98%) still wanted specific information about treatment and side effects, especially whether or not they had cancer. Negative stereotypes of the elderly are common among health care professionals (Greene et al, 1986). If clinicians assume that there is an increase in passivity and helplessness in the elderly patient, then it is more likely that these negative aspects will prevail in the consultation. This leads to a doctor-centred rather than patient-centred interaction, with the doctor in control of information giving.

Many older people still have a deferential attitude towards doctors, particularly when meeting them in a medical setting; thus our findings demonstrate the need for doctors to actively encourage such patients to ask questions. These patients may have grown up in a culture where it was considered impolite to question or ask further information from a ‘busy’ specialist. It would be surprising to still find this attitude in 10 or 20 years time, as medical information becomes more accessible to the general public. Clinicians have already commented on the increase in the number of ‘internet patients’ attending clinics, who are sometimes more informed about new treatments than the doctor (Thompson, 1999).

Recent literature repeatedly states that patients, whatever age, want to be kept well informed about their illness. The findings are similar to the operative patient in Australia (Farnhill and Inglis, 1994) the cancer patient in Hong Kong (Fielding and Hung, 1995) and the woman with breast cancer in Liverpool (Luker et al, 1996) or Canada (Degner et al, 1997). However, although older patients have a high desire for information, some data suggest that they have less desire for participation

### Table 2: Responses of 2331 patients to specific information needs (n and valid %)

| Question                                      | Total Sample | < 70 years of age | > 70 years of age | P value |
|-----------------------------------------------|--------------|-------------------|-------------------|---------|
| What the specific medical name of the illness is. | 801 (35.6%)  | 1562/1716         | 334/419           | 43.34   |
| Whether or not it is cancer.                  | 1348 (60%)   | 1684/1711         | 408/421           | 4.18    |
| When you are having treatment                 | 876 (39.3%)  | 1566/1701         | 359/416           | 0.04    |
| What the week by week progress is.            | 1195 (53.9%) | 1626/1696         | 384/412           | 5.32    |
| What the chances of cure are.                 | 1195 (53.9%) | 1626/1696         | 384/412           | 5.32    |
| What all the possible treatments are.         | 1223 (54.2%) | 1642/1724         | 373/418           | 21.78   |
| What all the possible side effects of treatment are. | 1363 (60%)   | 1692/1729         | 403/422           | 7.46    |
| How the treatment works to treat the illness.  | 1027 (45.6%) | 1612/1719         | 355/420           | 39.06   |

### Table 3: Responses to specific information needs as a function of general preference for information

| Question                                      | All information | Only good news | Leave up to Dr. |
|-----------------------------------------------|-----------------|----------------|----------------|
| Specific name of the illness                  | 1822/1962 (93%) | 79/118 (67%)   | 93/168 (55%)   |
| Whether or not it is cancer                   | 1930/1961 (98%) | 108/117 (92%)  | 145/167 (87%)  |
| Week by week progress                         | 1839/1949 (94%) | 82/116 (71%)   | 103/162 (64%)  |
| Chances of cure                               | 1909/1943 (98%) | 88/115 (77%)   | 118/161 (73%)  |
| All the possible treatments                   | 1919/1969 (97%) | 92/119 (77%)   | 109/167 (65%)  |
| All the possible side effects                 | 1956/1975 (99%) | 112/121 (93%)  | 135/169 (80%)  |
| How the treatment works                       | 1887/1965 (96%) | 82/121 (68%)   | 100/166 (60%)  |
in decisions about treatments and management (Charles et al, 1998).

Some clinicians have difficulty separating decision making from a need for information. Although some older people may want the doctor to make decisions about management, they still require information about the reasons for decisions affecting their care.

Age remained a significant factor when examining whether men and women wanted the same detailed information. Younger women had a greater need for information about all the possible available treatments, a finding similar to that in a previously published study of a small but representative sample of patients in the West of Scotland (Meredith et al, 1996). More younger women also preferred to know the specific name of the illness than men of the same age group. Women as a group are more active in seeking information about health and illness, for example CancerBACUP reported an excess of female enquirers to their information helpline (Boudioni et al, 1999) and in a recent study, 27% of women compared with 15% of men accessed the internet for health information at least once a week (Eysenbach et al, 1999).

Information about treatment options, prognosis and side-effects was considered particularly important by the patients surveyed by the National Cancer Alliance (1996). The majority of patients indicated that they wanted to know the truth and to be offered information in a language that they could understand. The Calman-Hine Report (1995) recommends that the views and preferences of patients, families and carers should be taken into account and patients given clear, understandable information. It has been shown that providing patients with information according to their own agendas facilitates psychological adaptation to illness and treatment (Fallowfield et al, 1990). One way to achieve this aim is through good communication. Following the Calman-Hine report into cancer services, attention to communication and information giving is an explicit recommendation in the NHS Executive guidelines yet it is an area that is often under-resourced. In addition there is anecdotal evidence from hospitals and medical defence organizations that suggests poor communication and inadequate information can result in complaints and litigation. Although discussions about diagnosis, prognosis and clinical trials in time pressured clinics are difficult, health care professionals can learn effective communication skills to assist them with these tasks (Maguire et al, 1996; Razavi and Delvau, 1997; Wilkinson et al, 1998). It has been shown that doctors engage in more patient-centred behaviour following training which means that they are more flexible and responsive to patients’ needs (Fallowfield et al, 1998).

The results from this very large sample support previous findings and is much more representative of cancer patients as a whole. It shows that most patients want as much information as possible. Even though patients may indicate a general preference for good news only or to leave details up to the doctor, most when cued by the questionnaire about different aspects of disease and treatment, still want very specific information. Failure to disclose information out of a belief that patients prefer not to know is untenable and prior knowledge of patients’ specific information needs might assist doctors in tailoring their consultations to meet patients’ actual not inferred requirements.

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