

COMMUNICATION SKILLS TRAINING INITIATIVE

EFFECTIVELY COMMUNICATING PROGNOSIS

EVIDENCE FROM THE LITERATURE AND RECOMMENDED STEPS

This literature review forms part of a communication skills training module presented in a professionally facilitated and interactive workshop

PREPARED BY THE NATIONAL BREAST AND OVARIAN CANCER CENTRE

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The National Breast and Ovarian Cancer Centre

Level 1, Suite 103 355 Crown Street, Surry Hills, NSW 2012

Locked Bag 3, Strawberry Hills NSW 2012

Telephone +61 2 9357 9409 Facsimile +61 2 9039357 9477

Website <u>www.nbocc.org.au</u> <u>www.breasthealth.com.au</u>

Email: directorate@nbocc.org.au

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In February 2008, National Breast Cancer Centre incorporating the Ovarian Cancer Program (NBCC) changed its name to National Breast and Ovarian Cancer Centre (NBOCC).

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NATIONAL BREAST AND OVARIAN CANCER CENTRE COMMUNICATION SKILLS TRAINING INITIATIVE

Benefits of effective communication between treatment team members and people with cancer include improvements in the patient's psychosocial adjustment, decision making, treatment compliance and satisfaction with care. Since 1997 National Breast and Ovarian Cancer Centre (NBOCC) has sought to improve the communication skills of oncology health professionals in Australia through the provision of the Communication Skills Training Initiative.

NBOCC Communication Skills Training Initiative is implemented through:

- the development and provision of standardised communication skills training modules and recommendations for best practice
- building capacity to implement communication skills training through conducting workshops for communication skills trainers
- development and maintenance of a website to support and promote communication skills training for health professionals
- supporting the implementation of local training workshops that use a best practice approach.

The Communication Skills Training Initiative supports the implementation of the NBCC and National Cancer Control Initiative's *Clinical practice guidelines for the psychosocial care of adults with cancer*¹.

For further information on the NBOCC's Communication Skills Training Initiative: http://www.nbocc.org.au/commskills

¹ National Breast Cancer Centre and the National Cancer Control Initiative. *Clinical practice guidelines for the psychosocial care of adults with cancer*. National Breast Cancer Centre, Camperdown, NSW: 2003.

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Module developers

 Professor Phyllis Butow and Ms Rebecca Hagerty, Medical Psychology Research Unit, University of Sydney and the Pam McLean Cancer Communications Centre.

NBOCC Communication Skills Steering Committee

- Professor Phyllis Butow, Director, Medical Psychology Unit, University of Sydney, NSW (Chair)
- Professor Jill Cockburn
- Ms Meg Lewis, Nurse, Royal Adelaide Hospital, SA
- Mr Peter Malycha, Surgeon, Royal Adelaide Hospital, SA
- Ms Pam Robertson, Consumer, Breast Cancer Network Australia, ACT
- Dr Jane Turner, Psychiatrist, University of Queensland, QLD

Module Reviewers

- Professor Roger Allison, Radiation Oncologist, Royal Brisbane Hospital, QLD
- Dr Sue-Anne McLachlan, Medical Oncologist, St Vincents Hospital, VIC
- Ms Belinda Thewes, Clinical Psychologist, Prince of Wales Hospital, NSW

National Breast and Ovarian Cancer Centre Staff

- Dr Karen Luxford, Deputy Director
- Ms Caroline Nehill, Senior Project Officer
- Dr Nicole Rankin, Program Manager

INTRODUCTION

Prognosis is an issue which most doctors and patients find difficult to discuss. Some patients may find discussing prognosis distressing and they often misunderstand the information they are given. From the doctors' perspective, issues commonly debated include how to determine what the patient wants to hear, whether to provide life expectancy estimates or make general comments, whether to discuss outliers and how to engender hope. The best way of presenting prognostic information to optimise understanding, psychological adjustment and decision-making is uncertain.

A literature search of relevant databases, i.e. MEDLINE, PSYCHINFO and CINAHL, was conducted including the following search terms and limited to articles in English: cancer, oncology, prognosis, communication, breaking bad news, doctor-patient communication and palliative care. These were screened for duplicates and irrelevant references (e.g. those pertaining to clinical issues). Further manual searches have been undertaken of articles cited in papers.

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LITERATURE REVIEW

PATIENTS' GENERAL INFORMATION NEEDS AND PREFERENCES

The literature shows that cancer patients generally want to be well-informed about their diagnosis, prognosis, treatment options and side-effects.¹⁻¹⁰

The majority of studies have been conducted in the early stage cancer setting or have included a sample of mixed stages of disease. The strongest evidence (four Level III studies) supports that the majority of cancer patients want large amounts of detailed information², including "bad news",¹ treatment options and goals, and prognostic information including the impact of the cancer on their daily life and the likelihood of cure.^{3, 5, 6} For example, a large study of 2331 heterogeneous cancer patients conducted in the UK by Jenkins et al found that 87% of patients wanted "all information good and bad".

The literature also suggests that information provision needs to be tailored to the individual needs of the patient which may be influenced by clinical factors such as disease status, demographic details such as age and gender, and personal factors such as coping style and values. ^{2, 11, 12} Information needs may change over time and it is recommended to check with patients at each consultation what his/her needs or expectations are.^{2, 3}

Concerning the style of information delivery, the evidence suggests that openness, honesty and clarity from the oncologist are the most highly regarded by patients¹³ as well as positive emotional support¹⁴ which has been rated more highly than the provision of positive information.

Similar results have been found in the advanced¹⁵⁻¹⁷ and palliative settings, where patients also want to know all information including "bad news", disease information,¹⁸ and prognosis with an emphasis on honesty,^{19, 20} but these preferences may also be influenced by coping style.¹⁶

PATIENTS' PREFERENCES FOR PROGNOSTIC INFORMATION

The majority of the studies exploring preferences for prognostic information have provided Level IVa evidence and have been conducted in the early stage cancer setting in mainly Australia, or the US. These studies show that most patients want to be given prognostic information; that they rate this information as both important to them and necessary. ^{2, 4-6, 8, 21-25 3, 26, 27}

Most patients want information about the chances of cure and the extent of disease spread, 3, 23, 28 possible side-effects of treatment and the chances of cure. Many patients want to discuss life expectancy and the effect of cancer on their life. 2, 5 However, many patients would like the specialist to check first if they want prognostic information and what type of information they would like (for example the chances of cure, survival rates, general expected outcome of the disease). For example, Kaplowitz et al asked 352 patients whether they would like to be given a "qualitative prognosis" (i.e. will/won't they die from the disease/ probably live a long time) or a "quantitative prognosis" (i.e. an estimate of their expected survival) and found that 80% wanted a qualitative prognosis but only one half wanted a quantitative estimate. However, one qualitative study found that patients did not want to be told a bad prognosis. Another qualitative study found that patients preferred written prognostic information to be presented using positive framing in terms of chances of survival as opposed to chances of mortality. Many patients wish also to have a loved one present during the discussion. Another discussion.

In the advanced setting however, fewer studies have been conducted and the evidence is less clear. Patients in an early study preferred not to receive more prognostic information (than they had already received).³¹ More recent studies, however, show that patients prefer disclosure of bad news and prognosis, that the oncologist check first if they want this information,³² and if it were to be given that it be given in a direct and honest manner.^{15, 32} The most recent evidence³³ reports that Australian patients with metastatic disease want detailed prognostic information including estimates of survival times, with the majority of the study patients wanting to negotiate with their oncologist the format, timing and extent of this information.

In the event of disease progression to incurable status, one study found that most patients (early stage disease) would prefer full disclosure of prognosis in the presence of a loved one.²¹

There is limited evidence available in the palliative setting. From the two studies identified, which were conducted in the USA, it was found that most patients wanted to discuss their prognosis truthfully with their doctor, including the impact of the illness on their daily lives.^{18, 20}

PATIENT PREFERENCES FOR STYLE OF COMMUNICATING PROGNOSIS

Style of communicating prognosis encompasses a range of possibilities including the location in which prognosis could be discussed and with whom, usage of terminology and how to convey hope.

Eleven studies have been conducted in the early stage cancer setting which provide evidence for the style in which prognosis may be communicated; most of these have been conducted in the USA or Australia.

The evidence suggests that patients' preferred style of being given the prognosis includes oncologists:

- using a variety of techniques to communicate risk, such as a mix of positive and negative framing²³
- checking understanding of prognostic information and explaining medical terms²³
- providing an opportunity to ask questions²³
- summarising and write down information given
- listening to fears and concerns
- providing support²³ and facilitation (rated almost as important as information)¹³
- ensuring a relative or friend is present²³
- delivering the news in person³⁴
- ensuring the discussion is free of interruptions³⁴
- ensuring the news is given in a comfortable location³⁴
- appearing to be interested in the patient³⁵
- talking for longer about prognosis³⁵
- displaying expertise¹³
- giving news in a clear and honest manner¹³
- providing a sense of trust³⁶
- providing reassurance and hope when discussing prognosis.^{2, 37, 38}

Provision of hope is a common theme in this literature. ³⁶⁻³⁸ Factors found to influence patient hope were physician willingness to:

- talk³⁷
- answer questions and provide information³⁷
- offer the most up to date treatment³⁸
- provide treatment information³⁶ and
- provide emotional support.³⁸

Factors reported as potentially decreasing hope included:

- perceived poor communication³⁷
- a pessimistic attitude³⁸
- an impersonal context for the disclosure.³⁸

The literature in the advanced cancer setting is characterised by the themes of providing hope and sensitivity when communicating prognostic information, ^{15, 32} the importance of trust and the development of a relationship with the patient, ^{32, 39} as well as showing understanding of psycho-social concerns. ¹⁵ The need for honesty and realism was also emphasised. ^{15, 32}

The evidence in the palliative care literature also emphasised the need for honesty, sensitivity and hope. ^{19, 20, 40} It is also suggested that being honest about a patient's medical condition and prognosis can alleviate uncertainty. ¹⁹ It is also recommended that physicians approach communication about end-of-life care as a spectrum requiring attention from the time of terminal diagnosis to death. ¹⁹

DISCLOSURE OF PROGNOSIS TO FAMILY MEMBERS

One difficult negotiation for oncologists in communicating prognosis is meeting the needs of the family members of the patients whilst also respecting those of the patient.³² An early study by Holland et al found that the majority of the physicians surveyed believed that it was common practice to reveal the diagnosis and prognosis to the family members of patients.⁴¹

More recent Western studies however, reveal a general belief in prioritising the preferences of the patient over family members both in terms of what is told and disclosure to family members.^{30, 32} One study found however, that although the majority of physicians surveyed stated they would not withhold diagnostic or prognostic

information from their patients on request of the family, they were more willing to withhold prognostic information than diagnostic information.⁴²

The evidence for patient preferences is mixed. One study found that patients favoured openness with family members but rejected unconditional disclosure of information without their consent and their family influencing what information they would be given.³⁰

PREDICTORS OF PROGNOSTIC INFORMATION PREFERENCES

Several studies (all Level IVa evidence) have identified predictors of prognostic information preferences.

The majority of these were conducted in the early stage cancer setting and some in the palliative care setting. The predictors identified are outlined below in Table 1:

Table 1: Predictors of Prognostic Information Preferences

Early Stage Cancer

- Rural upbringing and low levels of trait anxiety predicted preference for full disclosure of a terminal prognosis.²¹
- Those with higher trait anxiety scores were more likely to prefer the physician to tell a loved one the prognosis.²¹
- More anxious patients who want to avoid thinking about death wanted, requested and received significantly less prognostic information.²⁸
- Older people were significantly less likely to request and be given prognostic information.²⁸
- A worse prognosis was predictive of being less likely to want, ask for and receive quantitative information.²⁸
- Poorer prognosis and a need to avoid thinking about death was predictive of those least likely to want, request and receive qualitative information.²⁸
- Patients who were being treated more radically were more likely to want to know information about treatment side-effects and the chances of cure.⁶
- Women were found to require significantly more information about prognosis.⁸

Advanced cancer settings

One recent study in this setting identified predictors of patient preferences:³³

Content of prognostic information -

Patients with higher depression scores were more likely to want to discuss the

- shortest time to live without treatment, and the average survival.
- Lower depression levels were significantly associated with never wanting to discuss expected survival.
- Patients with an expected survival of years (estimated by their oncologist) were more likely to want to discuss life expectancy when first diagnosed with metastases.
- Patients with higher anxiety scores were less likely to want to know the chances of living one year and were more likely to want to know the longest time to live without treatment.
- Patients who scored highly on the Krantz Involvement preference scale were more likely to want to know the longest time to live without treatment.

Format of prognostic information

- Patients who scored highly on the Krantz Involvement preference scale were more likely to dislike the pie chart format of presentation of survival statistics.
- Patients of Anglo-Saxon background were more likely to prefer words when being given survival statistics.
- Older patients were more likely to prefer the 100-person diagram presentation of survival statistics.
- Patients with university entrance level education were more likely to prefer the pie chart presentation of survival statistics.
- When to deliver prognostic information and who to initiate -
- Patients who were less depressed were more likely to want to never discuss how long they had to live (as opposed to immediately or later).
- Patients who were expected to survive for years (as opposed to weeks or months to years) were more likely to want to discuss how long to live when first diagnosed.
- Patients who had children were more likely to want to discuss palliative care and dying.
- Patients with colorectal cancer or prostate cancer were more likely to want to have the prognostic discussions negotiated as opposed to the specialist "just telling" them.
- Colorectal cancer patients were more likely to want to negotiate the discussion of issues about dying and palliative care.

Palliative care setting

- No studies in this setting were identified.
- The strongest predictors appear to be anxiety and expected survival.

Understanding

- Several studies have explored predictors of understanding.
- Better recall of prognostic information in patients has been found to be predicted by

better prognosis, less denial and higher ratings of their oncologists as clear communicators.⁴³

- Patients with lower education levels have been found to be more likely to misunderstand their illness.⁴⁴
- Lower prognostic awareness has been found to be more common among those who were depressed and who had intense family contact.⁴⁵

PHYSCIANS' VIEWS ON IDEAL COMMUNICATION OF PROGNOSIS

In the early stage setting, many oncologists report being in favour of telling the diagnosis and prognosis when the patient desires this information, ⁴⁶ and some approve of informing the patient of their diagnosis and prognosis even when the patient prefers not to be told. ⁴⁶ In some cases physicians may be asked by family members to withhold diagnostic or prognostic information. One study reported that many physicians were more willing to withhold prognostic information than diagnostic information if requested. ⁴² Some clinicians in an earlier study were of the opinion that disclosing the prognosis was only appropriate if the prognosis was hopeful. ⁴¹ Oncologists reportedly find the most difficulty in discussing prognosis with patients in the transition from curative to non-curative treatment. ^{42, 47}

Three studies have been conducted in the advanced cancer setting. Clinicians participating in these studies were most often concerned about ensuring patient understanding of the information whilst also being sensitive and tailoring the information to the individual. ^{28, 32, 48} One of these studies found that most physicians stated that they routinely tell patients when "the cancer cannot be removed" but that they find it difficult to communicate the prognosis. Many, however, did provide the patient with survival statistics even when this was not requested by the patient. None were willing to give specific estimates of survival.

The main theme occurring in this setting is the issue of providing hope to patients whilst also being honest and realistic. One study of oncologists' views found that most prefer to provide prognostic information and realistic hope in stages.⁴⁹

Four studies have been conducted in the palliative care setting. An early survey of physicians and medical students conducted in USA found that most participants believed that terminally ill patients should be told the truth about their diagnosis and prognosis. ⁵⁰ Later studies however have shown that physicians were reluctant to provide prognostic information. ^{51, 52} For example, a large study of 214 physicians found

that physicians were reluctant to provide a frank estimate of survival in most cases even if the patient requested the information and that they would more often provide a conscious overestimate or underestimate most of the time. ⁵² One cross-cultural study found that there are differences in physician attitudes towards communication with terminally ill patients according to country/region. ⁵³

CURRENT PRACTICE OF DELIVERING PROGNOSTIC INFORMATION

All of the studies which have explored the practice of communicating prognosis have been Level IVa evidence and many have been conducted in the USA^{27, 42, 54} or Australia.^{4, 55} These studies have actually aimed to explore the practice or the patient experience of communication of the diagnosis and have not focussed on the communication of prognosis specifically but have reported some relevant data.

The most recent evidence is varied. Some studies have found that prognosis is more often not discussed^{4, 35, 56} and others report observations to the contrary. ^{54, 55} For example, Schofield at al found that only approximately one quarter of melanoma patients reported having discussed with their doctor their life expectancy or the expected impact of the cancer on their lifestyle. ⁴ Leighl et al, however, found that the majority of their sample of early stage breast cancer patients were well informed of the expected course of their illness and aims of treatment. ⁵⁵ In consultations where prognosis was discussed, the exchange was most often initiated by the physician. ^{54, 55} The expected impact of treatment on lifestyle was discussed less often than life expectancy ^{4, 54} and in one study was found to be initiated by the patient equally as often as by the physician. ⁵⁴ It was also found that the delivery of bad news was not perceived by patients as a single point of communication but as a series of discussions from the diagnosis to end of treatment. ⁵⁷

In the advanced cancer setting, the research also shows variability in observed practice of communicating prognosis. Most of the studies report that discussions of prognosis often do not occur⁵⁸⁻⁶¹ and one study found that if a prognostic discussion had occurred, it most commonly had taken place between the doctor and someone other than the patient. Where prognostic discussions had occurred it was found that there was a considerable lack of clarity in the information, settimates of expected survival were often not given and that both doctors and patients tended to avoid acknowledging or discussing prognosis by focussing on the treatment plan. Although the most recent study reported that patients were well informed of the aim of their treatment and the incurable status of their disease, fewer were informed of their expected survival.

In early studies conducted in the palliative setting, it was reported that many physicians mostly did not discuss the diagnosis or prognosis with their terminally ill patients^{63, 64} and if the issue of prognosis was raised, it was usually initiated by the patient and was not directly addressed by the physician.⁶³

More recent studies have also found that physicians often do not discuss prognosis with the patient or their carer; ^{65, 66} they present fewer facts and less detail concerning prognostic information as compared with other types of information; ⁵¹ and are reluctant to provide a frank estimate of survival even if the patient requests this information. ⁵² A lack of communication to terminally ill patients of impending death has also been reported. ⁶⁷ One study, however, found that the physicians who did provide a prognosis reportedly did so in a direct manner. ¹³ In another study, however, physicians reported that they would more often provide a conscious overestimate or underestimate of prognosis most of the time. ⁵²

PATIENT UNDERSTANDING AND AWARENESS OF PROGNOSTIC INFORMATION

Most studies conducted in the early stage cancer setting are of Level IVa evidence and have been conducted in a range of countries, the two most recent being in Australia. The common issue evident amongst these is that many patients report either not being told their prognosis or are found to misunderstand the status of their disease, the aim of their treatment and their prognosis. ^{43, 68} They often overestimate their chances of cure and expected survival. One Australian study found that patients did not understand the risk terminology used by clinicians such as "risk reduction" and "median survival" and recommended that Oncologists need to use a variety of techniques to communicate risk and to check that information has been understood.²⁹

Most of the studies of patients' understanding of their cancer in the advanced cancer setting have been conducted in the USA. One early study was conducted in Scotland and found that only one of the surveyed patients was aware of their prognosis.³¹ The more recent studies have revealed that many patients often do not understand the status of their disease or the treatment intent and many overestimate their expected survival^{15, 44, 60, 69-71} which has been shown to influence decisions to have aggressive treatment.⁷⁰ Patients receiving palliative treatment often mistakenly reported the aim of the treatment to be curative.⁷²

Patients' estimates of survival have also been found not to improve when discussions of prognosis reportedly occurred, with patients still tending to overestimate their expected survival.⁷³

There is little evidence in the palliative care setting. An early study found that many incurable cancer patients were not aware of their disease status and many had not actually been given this information⁶⁷. This study compared results with an earlier 1969 study and found that there had been an increase in awareness and disclosure between 1969 and 1987. A more recent study found that most patients acknowledged their terminal diagnosis and had a realistic understanding of their expected survival. There was a substantial minority however who denied their terminal status and shortened life expectancy. 45

Several studies have identified predictors of understanding. For example, one study found that patients with better recall had a better prognosis, exhibited less denial and rated their oncologists as clearer communicators. ⁴³ Another study found that lower prognostic awareness was more common among those who were depressed and who had intense family contact. ⁴⁵ Patients with lower education levels have also been found to be more likely to misunderstand their illness. ⁴⁴

CULTURAL DIFFERENCES IN PREFERENCES AND UNDERSTANDING

Considerable literature exists regarding different prognostic information needs of patients of different cultures. Several studies exploring the Greek culture have been conducted in recent years⁷⁴⁻⁷⁶ and other cultures examined include that of Israel¹⁵, Sweden⁵⁷, Norway³⁵, Germany⁷⁷, South Africa⁷⁸, Italy⁷², Singapore⁷⁹, Turkey⁸⁰, Spain⁸¹, Tanzania⁸², and Chinese migrants of Australia⁸³ and one cross-cultural study of Canadian, South American and European physicians.⁸⁴

The evidence suggests that patients of Anglo-Saxon background prefer disclosure^{3, 6, 23, 28} whereas those of other cultural background tend to vary^{74, 76, 78} with a tendency to favour non-disclosure.^{74, 83}

Many health professionals of different cultures, particularly Asian cultures, are in favour of non-disclosure. ^{75, 79, 82} Patients are also reportedly unaware of their diagnosis and/or prognosis ^{35, 76, 77} which may indicate that it is common for patients not to be given this information.

Members of some cultures may prefer that the family have a high level of involvement in the consultations and in some cases that the family be informed first of the diagnosis and prognosis and that the patient be either told gradually or not at all.^{74, 75 77}

IMPACT OF PROGNOSTIC INFORMATION ON PATIENT OUTCOMES

No study to date has explored the impact of prognostic information specifically, on patient outcomes. The strongest evidence is derived from a randomised trial of a general question prompt list (QPL) for oncology patients. It was found that provision of the QPL and endorsement of the QPL by the oncologist significantly increased patient question-asking and subsequent discussion about prognosis whilst decreasing patient anxiety and reducing the length of the consultation.⁸⁵

Other studies have found the following outcomes and are listed in Table 2:

Table 2: Impact of Prognosis Information on Patient Outcomes

Patient satisfaction

- What physicians say, how they say it and environmental factors (such as receiving the news in a comfortable location; the discussion being free from interruptions, the physician delivering the news in person, and sitting close to the patient) influenced levels of satisfaction with the experience.³⁴
- Being told the prognosis and longer length of disclosure significantly and independently predicted higher patient satisfaction.³⁵

Depression and anxiety

- Those who did not know or did not acknowledge their prognosis were found to have greater depression levels.⁴⁵
- Those who received greater information about prognosis did not have higher levels of anxiety.⁶²

Hope

 Patients who showed no recollection of receiving information about their prognosis were more hopeful.⁸⁶

Other

- Patient recall of receiving bad news is influenced by perception of the delivery as negative;⁸⁷
- Patients who received inadequate or unclear information about their illness, treatment and prognosis were more likely to adopt an alternative treatment (the Moerman diet).⁸⁸

INTERVENTIONS TO FACILITATE PROGNOSTIC DISCUSSION

No studies have been conducted to specifically to evaluate an intervention to facilitate communication of prognosis. Some of the general intervention studies, however, have reported results relevant to communication of prognosis. These are:

- A communication skills workshop significantly improved physician self-ratings of confidence in key areas of communication, including giving good and poor prognoses, giving news about recurrence or the shift to non-curative treatment, which remained evident after 3 months.⁸⁹
- Patients given a question prompt list asked significantly more questions about prognosis.^{85, 90, 91}
- Endorsement of the question prompt list by the oncologist significantly increased discussion about prognosis.⁹⁰
- There also exists a large amount of literature on the evaluation of decision aids designed assisting patients in making treatment decisions. Overall the results of these studies show that the use of decision aids has increased patient understanding of the costs and benefits of treatment options which includes information about prognosis with and without treatment.⁹²

GUIDELINES FOR COMMUNICATING PROGNOSIS

There already exist some guidelines⁹³⁻⁹⁷ and recommendations^{98, 99} on communicating bad news. However, none specifically recommend how to discuss prognosis, apart from those within the NHMRC Psychosocial Clinical Practice Guidelines96 which are based on one Australian Level IV study^{23, 29} which identified the prognostic information preferences of women with early stage breast cancer. Based on all evidence currently available, the following guidelines for communicating prognosis are recommended in Table 3:

Table 3: Guidelines for Communicating Prognosis

Prior to discussing prognosis

- Ensure that the discussion will take place in privacy.
- Ensure as much as possible that there will be no interruptions (e.g. switch off mobile phones and pagers; inform staff).
- Check first if a patient wants to be given prognostic information.
- Check if the patient would like to have a friend or relative present.
- Check if the patient would like another medical person present (if applicable).
- Explore and negotiate with the patient the type (e.g. staging details; the chances of being cured; short and long-term side-effects of treatment; survival estimates) and format (e.g. words, numbers, graphs) of prognostic information desired and adhere to these preferences.

When discussing prognosis

- Adopt an honest and straightforward yet sensitive approach.
- Encourage a collaborative relationship with the patient (e.g. provide opportunity to ask questions).
- Use the most up-to-date information, and if desired, explain its source.
- Preface any statement of prognostic estimates with the limitations of prognostic formulations.
- If giving a time frame emphasise a range and not specific endpoints.
- Use mixed framing i.e. give the chances of cure first then chances of relapse.
- Present information in a variety of ways (e.g. words, graphs, statistics).
- Present absolute risks with and without treatment.

- Broaden discussion of the prognosis to include effect of the cancer on the individual's lifestyle.
- Emphasise hope—giving aspects of the information, e.g. extraordinary survivors.
- Repeat negotiation of information preferences and needs over time.
- Be aware that individual patient needs for prognostic information may change over time

Following prognostic discussion

- Summarise the main points.
- Check that the patient has understood.
- Check the patient's emotional reaction to the information.
- Inform the patient of available support.
- Organise a review appointment.
- Inform the patient of your availability and contact details in case of further questions.

Particular patient needs

- Different cultures: Exercise caution with information provision as the patient may come from cultures where avoidance or paternalism is the norm, and/ or where family systems differ from the western model. It may be necessary to explore the needs of patients and family members separately for information about prognosis, as these may differ.
- Anxious patients: May want less information.
- Depressed patients: May be more likely to want information about survival estimates.
- Age differences: Younger patients may want more information and older patients
- **Gender:** Female patients may want more information.
- **Expected survival:** Those with a worse prognosis may be less likely to want prognostic information.
- **Education level:** Those with less education may require more assistance to understand prognostic information.

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