

# Communication skills of nurses during interactions with simulated cancer patients

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## Communication skills of nurses during interactions with simulated cancer patients

**Aim.** In this paper the balance of affective and instrumental communication employed by nurses during the admission interview with recently diagnosed cancer patients was investigated.

**Rationale.** The balance of affective and instrumental communication employed by nurses appears to be important, especially during the admission interview with cancer patients.

**Methods.** For this purpose, admission interviews between 53 ward nurses and simulated cancer patients were videotaped and analysed using the Roter Interaction Analysis system, in which a distinction is made between instrumental and affective communication.

**Results.** The results reveal that more than 60% of nurses' utterances were of an instrumental nature. Affective communication occurred, but was more related to global affect ratings like giving agreements and paraphrases than to discussing and exploring actively patients feelings by showing empathy, showing concern and optimism.

**Conclusion.** In future, nurses should be systematically provided with (continuing) training programmes, in which they learn how to communicate effectively in relation to patients' emotions and feelings, and how to integrate emotional care with practical and medical tasks.

**Keywords:** cancer, nurse–patient interaction, admission conversation, instrumental, affective communication, Roter Interaction Analysis System, simulation

## Introduction

It is widely known that in cancer nursing, communication with patients is emotionally laden (Northouse & Northouse 1987, Maguire & Faulkner 1988, Chaitchik *et al.* 1992, Faulkner 1993). Cancer is a life-threatening disease and medical treatment can have far-reaching consequences. Consequently, many cancer patients seem to experience distress after diagnosis (Fallowfield 1988, Maguire & Faulkner 1988, Harrison *et al.* 1994, Maguire 1995). When these patients have to be admitted to hospital for treatment, ward nurses, in particular, are closely involved with patients' concerns as they provide 24 hour care. Accordingly, communication is one of the most important aspects of nursing care in an oncology setting (Wilkinson 1991). In line with research into doctor-patient communication, two types of communicative behaviours employed by nurses seem to be important in meeting the cognitive and especially the affective needs of cancer patients. In the first place, these include instrumental behaviours, which are of significance in informing the patient about the illness and treatment, and providing medical and practical care. In the second place, they include affective behaviours, such as showing respect, giving comfort and trust which are important in building a relationship with the patient, in which s/he has a sense of being understood (Hall *et al.* 1987, Bensing 1991), and in creating a trustful atmosphere, in which the patient is helped to disclose information and concerns relating to their confrontation with a life-threatening disease (Wouda & Van de Wiel 1996).

However, the emotional load in cancer nursing makes interactions between nurses and patients difficult. Research shows that nurses' communication exhibits more negative or blocking features than positive facilitative ones during interactions with cancer patients (Kruijver *et al.* 2000a). These blocking behaviours are characterized by overwhelming patients with medical information (Dennison 1995), failing to establish what patients understand about their illness and treatment (Dennison 1995), an overwhelming concern with the physical care and treatment problems (Bond 1983), use of closed questions (Maguire *et al.* 1996), not being able to assess problems and concerns, and not being able to get patients to disclose feelings (Webster 1981, Degner *et al.* 1991, Heaven & Maguire 1996). These findings seem to disclose an imbalance in nurses' performance of both types of communication behaviours: nurses' affective communication is virtually entirely absent. Research shows that imbalance leads to dissatisfaction from cancer patients (Suominen *et al.* 1995). They view nurses' communication as unsupportive when the nurses pay no attention to the emotional component (Krishnasamy 1996a).

This paper focuses on the balance as regards affective and instrumental communication employed by nurses in a clinical oncology setting. The balance is particularly important during admission interviews with recently diagnosed cancer patients. At this time, the patient becomes acquainted with the nurse who, in the primary nursing system, will be primarily responsible for the care of the patient during his/her stay in hospital (Ersscher & Tutton 1991). The admission interview usually starts with history taking, in which the nurse gathers information from the patient about medical and lifestyle issues relevant to treatment. The use of exploratory skills encouraging the patient to respond freely about affective and medical topics, alternating with skills that structure the conversation, are in consequence important (Wouda & van de Wiel 1996). Another important nursing aspect of the admission interview concerns providing clear information about medical issues with regard to treatment, and providing clear information about ward organizational issues, and services during admission (Wouda & van de Wiel 1996).

From the patient's perspective, the admission situation can cause emotional distress as it follows recent diagnosis of a life-threatening disease, and admission for cancer treatment. In this situation, it is important for the nurse to be able to create an environment of trust, in which the patient feels respected, involved and accepted. In a good environment, the patient is helped to disclose concerns, which may relieve him/her. Relief, in turn may lead to an increased concentration, from patient's side, on the nurse's information and questions asked during admission. In such circumstances, a nurse's ability to adapt the information to the patient's emotional condition is of significance (Krishnasamy 1996b, Wouda & van de Wiel 1996).

These nursing tasks during the admission interview show the significance in turn of affective and instrumental communication.

## The study

### Background

An exact picture as regards the ratio of instrumental to affective communication of nurses during interactions with cancer patients has never been investigated in nursing research before. Insight about this could give a more nuanced picture of the (im)balance between instrumental and affective communication employed by ward nurses in a clinical oncology setting. In relatively few studies the method of systematic observation with videotapes has been used (Kruijver *et al.* 2000a, b). This is preferred because it is the most direct and complete method of evaluating communication behaviours, including nonverbal communication. In

most previous studies, communicative behaviours were measured with questionnaires and audiotapes. Consequently, nonverbal communication, which has been shown to be important during nurse–patient interactions, has hardly been investigated (Kruijver *et al.* 2000a, b).

## Aim

This paper reports a direct observational study using video tapes. The study focuses on the balance of affective and instrumental communication employed by ward nurses during the admission interview with recently diagnosed cancer patients, including nonverbal communication.

The research question addressed was: what is the actual balance of affective and instrumental communication employed by ward nurses during the admission interview with recently diagnosed cancer patients?

## Methods

### Sample

In total, 53 registered (ward) nurses in different medical specialisms at three hospitals in the Netherlands participated in the study. All nurses had experience in caring for cancer patients. The three hospitals that participated were two university and one general. The nurses were recruited from 11 wards: gynaecology, urology, surgery, internal medicine/haematology and ear, nose and throat diseases (ENT). In Table 1, background characteristics of the nurses are presented.

### Procedure

Ethics committee approval for the study was provided by each of the three hospitals. The nurses were approached

by the researcher (IK) and were informed about the purposes of the study both verbally (by means of holding presentations on the wards) and in writing. Potential participants were assured that anonymity of the results was guaranteed, and that they were free to withdraw. Then, enthusiastic nurses could sign up for participation.

This research is part of a randomized pretest–post-test study, in which the communication skills of these nurses during interactions with simulated patients, as well as with real cancer patients in daily practice, are investigated. Also, the question of how the communication skills of the participating nurses can be improved by a communication skills training programme is addressed. A power analysis was calculated in order to determine the population size. This revealed that a sample size of  $2 \times 30$  (30 in the experimental condition and 30 in the control condition) would result in an acceptable power coefficient. In fact, we recruited 53 registered (ward) nurses who were willing to participate.

A major strength of the study was that the participants were rewarded for their participation by receiving a training in communicating skills during the study (experimental group) or afterwards (control group).

### Simulated patients

Simulated patients were used to answer the research question. The advantage of the simulated patient technique is that it directly assesses nurses' communication skills that are important during the daily performance in nursing practice. Further, there was an elaborate and standardized script, allowing nurses to test their skills. This improves comparability between nurses as patient variations may be reduced.

Each nurse completed one video taped admission interview with an actor. In total, three actors participated. The actors were trained professionals who played a recently diagnosed cancer patient who had arrived on the ward for admission. The actors were instructed to play a cancer patient according to the scenario which was developed specifically for this study. In order to write a realistic and elaborate scenario including significant elements to test the nurses on their skills, an oncologist, an oncology nurse and a cancer patient checked the script for quality based on their specific expertise.

The script related to a middle-aged female cancer patient who was being admitted for cancer treatment. The treatment was curative. The underlying emotions arising from confrontation with a life-threatening disease, like resistance, anger, denial and anxiety, were central themes.

For each nurse, the script was standard, but small adaptations were made for each medical specialism. The participating nurses within the different medical specialisms were comparable, as cancer patients experience the same emotions

**Table 1** Background characteristics of the participating nurses ( $n = 53$ )

|  | <i>n</i> | SD |
|--|----------|----|
| Gender (%)                                   |          |    |
| Men  | 15       |    |
| Women  | 85       |    |
| Age (years)                                  |          |    |
| Mean age                                     | 32       | 8  |
| Educational level (%)                        |          |    |
| HBO (Dutch higher educational level)         | 34       |    |
| MBO (Dutch secondary educational level)      | 62       |    |
| Missing                                      | 4        |    |
| Mean years of employment (years)             | 11       | 8  |
| Mean years of employment in oncology (years) | 5        | 5  |

after being diagnosed, regardless of the kind and stage of the disease, and as the admission procedure within the different medical disciplines was the same.

#### Assessment

The participating nurses were asked to go through the admission procedure with the simulated patient in the same way as they did on the ward with actual patients. The interviews with the simulated patients lasted no more than 20 minutes. After 20 minutes, the procedure was interrupted. The nurses did not have to complete the admission procedure, although they could finish it earlier than the 20 minutes limit. The mean length of the interviews was 18.42 minutes (SD 2.58 minutes).

Directly after the admission interview, each participant had a short encounter with the actor and the researcher, during which the nurse had the opportunity to report their feelings of the experience. Although in general the participants experienced some stress before the admission interview, the majority of them reported afterwards that they forgot that they were interacting with an actor and videotaped, which meant that stress did not really affect their behaviour. On the whole, participants experienced the encounter with the simulated patient as a real life admission interview.

#### Observation scheme

*Affective and instrumental communication.* The 53 videotaped admission conversations with simulated patients were observed using the Roter Interaction Analysis System (RIAS) (Roter 1989). In this system, a distinction is made between instrumental or task-related and affective or socio-emotional verbal communication. The RIAS was originally designed to code doctor and patient communication, but has also proved to be reliable with respect to the observation of nurse-patient interactions (Gruijter & de Schirm 1995, Caris-Verhallen *et al.* 1999).

In this study, some small adaptations were made, tailored to the nurse-patient interaction in a clinical oncology setting. The adapted version included 32 behavioural categories for the nurses (see Table 2). Each nurse utterance was coded into one of the instrumental or affective categories, which are mutual exclusive. An utterance is a communication unit which conveys one thought, or is related to one specific interest. An utterance can vary from one word to a sentence.

Patients' utterances can also be coded with the RIAS. These are important because patients can differ widely in their communication style which, consequently, will have an impact on nurses' communicative behaviours. However, this study focuses on nurses' communication behaviours only as the variability in patient behaviour in a standardized setting is

controlled. More precisely, patient communication was performed by the actor in the same way for each participant. For this reason, it was not necessary to code the patients' utterances.

*Instrumental communication* consists of categories which contain all items with respect to nursing and medical topics, items about the organization on the ward and services, and verbal expressions about lifestyle issues and psychosocial topics. Further, instrumental communication consists of categories that indicate guidance and direction through the conversation, such as orientation and instructing, requests for clarification, asking for opinions and asking for understanding (see Table 2).

During the history-taking stage of the admission interview, the use of open questions is important in exploring, alternating with closed questions (among others requests for clarification) in order to gain supplementary information. During the information-giving stage of the admission interview the use of skills that structure the information, for example giving orientations, is significant. Further it is important to avoid a monologue. This can be achieved by using skills that involve the patient during information-giving, for example, by asking them about understanding of the information, and by asking for their opinion and experience. *Affective communication* consists of the categories which refer to those aspects needed to establish trusting relationships between nurses and patients in order to facilitate information exchange. Additionally, affective communication refers to nurses' social conversation that has no particular function in nursing activities, such as personal statements and jokes (see Table 2).

During the admission procedure in particular, affective communication is important in encouraging the patient to disclose concerns. Examples of affective behaviours are paraphrases, showing concern, showing empathy, showing optimism and understanding. These behaviours convey respect, attention and intimacy, and provide companionship and encouragement (Krishnasamy 1996b, Wouda & van de Wiel 1996, Roter 1989).

Based on the research of Caris-Verhallen *et al.* (1999), we also observed five affective nonverbal affective nurse behaviours. These also appear to be important in the establishment of the nurse-patient relationship, including patient-directed gaze, affirmative head nodding, smiling, leaning forward and affective touch (Heintzman *et al.* 1993, Caris-Verhallen *et al.* 1998). These behaviours convey involvement, closeness, friendliness and attentiveness. They are not necessary in performing nursing tasks, but do facilitate verbal interaction between nurses and patients (see Table 3).

**Table 2** Occurrence of nurses' verbal behaviours within the instrumental/affective categories

|   | Range  | Mean frequency | %  | Inter-rater reliability<br>(Pearson's <i>r</i> ) |
|---|--------|----------------|----|--|
| <b>Affective</b>                                    |        |                |    |  |
| Personal remarks/social conversation                | 0-23   | 5              | 3  | 0.88**   |
| Jokes/laughs  | 0-7    | 0.5            | -  |  |
| Approval  | 0-4    | 0.3            | -  |  |
| Compliments   | 0-2    | -              | -  |  |
| Shows concern/worry                                 | 0-10   | 3              | 2  | 0.65*  |
| Shows agreement/understanding                       | 7-110  | 39             | 19 | 0.94**   |
| Paraphrase/check                                    | 4-46   | 21             | 10 | 0.61   |
| Empathy/legitimize                                  | 0-19   | 4              | 2  | 0.54   |
| Reassurance/encouragement/optimism                  | 0-32   | 4              | 2  | 0.72*  |
| Shows partnership                                   | 0-32   | 0.7            | -  |  |
| Disapproval   | 0-1    | -              | -  |  |
| Criticism   | -      | -              | -  |  |
| Asks for reassurances                               | 0-2    | -              | -  |  |
| Total utterances                                    | 37-54  | 77             | 38 |  |
| <b>Instrumental</b>                                 |        |                |    |  |
| Orientations/instructions                           | 1-21   | 6              | 3  | 0.86**   |
| Asks for clarification                              | 0-4    | 0.3            | -  |  |
| Asks for understanding                              | 0-11   | 2              | 1  |  |
| Asks for opinion                                    | 0-8    | 1              | 1  |  |
| Closed questions: medical/therapeutic items         | 0-26   | 10             | 5  | 0.86**   |
| Closed questions: hospital/ward items               | 0-5    | 0.7            | -  |  |
| Closed questions: lifestyle items                   | 0-20   | 7              | 3  | 0.94**   |
| Closed questions: psycho-social/feelings            | 2-38   | 9              | 5  | 0.71*  |
| Open questions: medical/therapeutic items           | 0-7    | 2              | 1  |  |
| Open questions: hospital/ward items                 | 0-1    | -              | -  |  |
| Open questions: lifestyle items                     | 0-3    | 0.1            | -  |  |
| Open questions: psycho-social items/feelings        | 0-11   | 4              | -  |  |
| Information related to medical/therapeutic items    | 13-110 | 50             | 24 | 0.94**   |
| Information related to hospital/ward items          | 0-96   | 12             | 6  | 0.71*  |
| Information related to lifestyle items              | 0-19   | 1              | -  |  |
| Information related to psycho-social items/feelings | 2-58   | 24             | 11 | 0.89**   |
| Counsels medical/therapeutic behaviour              | 0-8    | 0.7            | -  |  |
| Counsels lifestyle behaviour and feelings           | 0-19   | 3              | 1  |  |
| Rest  | 0-4    | 0.4            | -  |  |
| Total utterances                                    | 55-262 | 131            | 62 |  |

\* $P < 0.05$ , \*\* $P < 0.01$ .

#### Reliability of the observations

The affective and instrumental communication between nurses and cancer patients was observed by two independent raters directly from videorecordings using the CAMERA computer system which is especially designed to code the observed behavioural interactions from videorecordings (Iec ProGAMMA 1994).

Pearson's product-moment correlation coefficients were used to measure the interobserver reliability, based on 20% (10 interviews) of the total number of videotaped admission

conversations. Two observers rated the same 10 interviews. Inter-observer correlations for the verbal instrumental behaviours ranged from 0.54 to 0.94; for the verbal affective behaviours interobserver correlations ranged from 0.66 to 0.94 (see Table 2).

Inter-observer correlations for the nonverbal affective behaviours ranged from 0.66 to 0.86 (see Table 3). The nonverbal behaviours forward leaning and affective touch were performed too rarely by the nurses to allow measurement of interobserver reliability.

**Table 3** Occurrence of nonverbal behaviours ( $n = 53$ )

|                          | %  | Mean | SD   | Inter-rater reliability (Pearson's $r$ ) |
|--------------------------|----|------|------|--|
| <b>Minutes</b>           |    |      |      |  |
| Patient directed gaze    | 88 | 16.1 | 2.7  | 0.84**                                   |
| <b>Frequencies</b>       |    |      |      |  |
| Affirmative head nodding |    | 21.6 | 11.4 | 0.86**                                   |
| Smiling                  |    | 4.1  | 4.7  | 0.66                                     |
| Forward leaning          |    | 1.4  | 2.6  |  |
| Affective touch          |    | 0.7  | 1.4  |  |

\*\* $P < 0.01$ .

## Results

In order to answer the research question, the ratio of instrumental to affective communication was examined first. The results show that 62% of the communication behaviours employed by nurses were instrumental and 38% were affective. This means that the majority of the nurses' utterances concerned instrumental communication (see Table 4).

Next, the occurrence of nurses' communication behaviours within the affective and instrumental categories were examined.

It appeared that a relatively large part of affective communication was related to the more global affective behaviours, such as giving agreements (19%) and paraphrases (10%). The minority of the affective utterances was related to specific affective behaviours such as showing concern (2%), empathy (2%) and providing reassurance/optimism (2%).

Within the instrumental categories, the most communication by the nurses consisted of providing medical information (24%), followed by information about psychosocial issues (11%), and about the organization of the ward (6%). Further, it appeared that few utterances were related to structuring communication behaviours such as giving orientation (3%) and requests for clarification (0%). Additionally, few utterances were related to behaviours that involve the patient during the discourse such as asking about their understanding (1%), and asking for their opinion (1%).

**Table 4** Occurrence of nurses' verbal behaviours: instrumental vs. affective ( $n = 53$ )

|                         | Range  | Mean frequency | %   |
|-------------------------|--------|----------------|-----|
| Affective behaviours    | 37–154 | 77             | 38  |
| Instrumental behaviours | 55–262 | 131            | 62  |
| Total utterances        | 98–338 | 208            | 100 |

**Table 5** Question asking ( $n = 53$ )

|                  | Range | Mean frequency | %   |
|------------------|-------|----------------|-----|
| Open questions   | 1–16  | 5              | 18  |
| Closed questions | 8–63  | 27             | 82  |
| Total questions  | 9–64  | 32             | 100 |

With regard to the facilitating verbal skills of nurses, which have been shown to be important in the nursing literature, the ratio of open to closed questions was also investigated. Open questions have a probing intent, and facilitate patients to respond freely about affective or medical topics. Closed questions are direct questions that ask for specific information and consequently limit responses to a yes or no answer. Table 5 shows that the nurses asked predominantly closed questions (88%).

Finally, the nurses' nonverbal affective communication with recently diagnosed cancer patients during the admission conversation was investigated.

Table 3 shows that patient-directed gaze occurred most of the time. Affirmative head nodding was also a frequently used nonverbal behaviour. Further it appeared that smiling, forward leaning and affective touch occurred relatively rarely.

## Discussion

In this study, the balance of affective and instrumental communication employed by nurses during the admission interview with newly diagnosed cancer patients was investigated. For this purpose, admission interviews by 53 ward nurses with simulated cancer patients were videotaped and analysed with the RIAS, in which a distinction is made between instrumental and affective communication (Roter 1989).

The results show that nurses predominantly employed instrumental communication, mostly consisting of giving information about medical topics. Structuring behaviour and behaviour that involves the patient in the conversation, which seem to be important instrumental skills during the admission, were rarely used. When looking at the way in which nurses asked questions, it appeared that they mostly used closed questions, which limit the patient's expression of feelings and concerns. Affective communication occurred in about one-third of the interactions, but was more related with global affect ratings such as agreements and paraphrases than to specific affective behaviour such as showing empathy, concern and optimism.

With regard to nurses' nonverbal affective communication, patient-directed gaze occurred most of the time. This can be explained by the fact that nurse and patient were sitting at a table in front of each other. Nursing activities during the

admission were mainly characterized by information exchange. Nurses therefore used a great part of the time for eye contact with the patient. Leaning forward and affective touch occurred rarely. Although the simulated patient was acting in a distressed way, nurses scarcely used behaviours which are important in creating a trusting relationship.

These results indicate that an imbalance does indeed exist in nurses' use of instrumental and affective behaviours: nurses predominantly gave information about medical topics, which certainly is an important aspect of the admission procedure. However, they rarely made any assessment of the patient's understanding of the situation. Neither did they explore the patient's feelings actively, and they rarely discussed the emotional aspects of the disease in order to create a comforting and helpful atmosphere. These findings agree with those in the literature which show an imbalance in nurses' use of both types of communication, characterized by an overwhelming medical concern (Webster 1981, Bond 1983, Dennisson 1995) and neglect of the emotional component (Webster 1981, Degner *et al.* 1991, Heaven & Maguire 1996). These behaviours are especially viewed by patients as unsupportive (Krishnamy 1996a), which leads to dissatisfaction (Suominen *et al.* 1995).

Other studies show that cancer patients' need to disclose concerns is met only when nurses are willing to explore and listen to these concerns. Reid Ponte (1992) found that the more the nurses showed empathy, the more concerns were disclosed by patients. Webster (1981) and Degner *et al.* (1991) found that patients' disclosure of feelings was strongly inhibited by nurses' avoidance behaviours, such as abrupt change of the subject of conversation and behaving as though the patient had not spoken at all.

A *posthoc* look at patients' ratio of instrumental to affective communication behaviour in this study (not reported in the results), revealed that this was the same as the nurses' ratio. This indicates that, in accordance with the literature, patients do not express concerns, when they feel that there is opportunity. In other words, the nurses' agenda predominates, and determines the course of interactions with cancer patients.

Emotional care, in addition to practical and medical care, is a crucial task in the professional role of the nurse. However, research shows that discussing emotional issues with patients is at the same time one of the most difficult tasks for nursing professionals because of the unease that they experience when discussing these issues with cancer patients (Webster 1981, Maguire 1985). Webster (1981), for example, found that nurses caring for severely ill cancer patients were conscious of using distancing tactics. They were afraid apparently of losing control over the situation if they became too close to patients.

In future, nurses should be provided systematically with (continuing) training programmes. During these education programmes, they need to learn how to explore and discuss actively emotions and feelings without losing control of their own emotions. Further, they should learn how to integrate emotional care with information-giving techniques, and with practical and medical care during interactions with cancer patients.

A shift in the desired direction as regards the balance of instrumental and affective behaviours performed by nurses could lead to increased satisfaction and well-being for cancer patients as well as for nurses caring for these patients.

### Methodological issues

Because we were primarily interested in the ratio of affective to instrumental communication by ward nurses during the admission interview with cancer patients, the simulated patient method was used in order to answer our research question. This method has the advantage that variations among patients may be reduced as a consequence of a standardized situation. However, up till now the validity of the simulated patient method has scarcely been investigated in nursing research. In current medical and nursing research in this area a distinction is frequently made between 'competence' as an outcome variable, measured with simulated patients, and 'performance' as an outcome variable, measured with real or actual patients (Francke *et al.* 1995, Rethans 1991, Pieters 1991, Ram *et al.* 1999). Competence concerns the level to which a health care provider is capable of performing a skill, and performance to how a health care provider actually performs a skill in day to day practice (Pieters 1991).

An interesting topic of research would be further investigation of the validity of working with the simulated patient method. This could expand insight into the extent to which communication skills of nurses, as measured with simulated patients, can predict communicative behaviours with actual patients in day to day practice. We are currently conducting a validation study in this area.

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