Abstract

Objective To explore the attitudes and beliefs of stroke patients identified by professionals as having either “high” or “low” motivation for rehabilitation. Design Qualitative study with semistructured interviews. Setting The stroke unit of an inner city teaching hospital. Participants 22 patients with stroke who were undergoing rehabilitation; 14 with high motivation for rehabilitation and eight with low motivation.

Results All patients thought rehabilitation was important for recovery. High motivation patients were more likely to view rehabilitation as the most important means of recovery and to accord themselves an active role in rehabilitation. These patients were also more likely to understand rehabilitation and in particular to understand the specialist role of the nursing staff. Many patients reported independence at home as a personal goal, though few low motivation patients related this goal to success in rehabilitation. Information from professionals about rehabilitation, favourable comparisons with other stroke patients, and the desire to leave hospital had a positive effect on motivation. Conversely, overprotection from family members and professionals, lack of information or the receipt of “mixed messages” from professionals, and unfavourable comparisons with other patients had a negative effect.

Conclusions There are some differences in beliefs between stroke patients identified as having low or high motivation for rehabilitation. These beliefs seem to be influenced by the environment in which the patient is rehabilitated. Professionals and carers should be made aware of the ways in which their behaviour can positively and negatively affect motivation.

Introduction

Rehabilitation professionals commonly believe that motivation of patients has an important role in determining outcome,” despite the lack of a shared understanding of the term “motivation.” Furthermore, rehabilitation literature shows no consensus on the nature and determinants of motivation. Many of the clinical literature presents unsupported descriptions of motivation as an individual personality trait, without any empirical analysis of motivation.

Few studies have attempted such analysis. Kaufman suggested that stroke patients’ motivation was increased by their sharing the “ideology” of rehabilitation. Other studies found that patients sharing this ideology received more attention from rehabilitation professionals. These studies, however, did not focus on the analysis of motivation and did not explore the attitudes and beliefs associated with motivation. If motivation for rehabilitation affects outcome, its nature and aetiology should be better understood.

We explored the beliefs of stroke patients who were identified as having “high” or “low” motivation for rehabilitation and investigated the determinants of their motivation.

Methods

Design of study—Semistructured interviews11 were conducted with stroke patients who were undertaking rehabilitation in the stroke unit of an inner city teaching hospital.

Sample—Patients were selected by using “extreme case sampling,” whereby participants considered to be clear examples of the phenomenon under investigation are recruited.12 Professionals on the stroke unit identified patients considered to have high or low motivation for rehabilitation. If there was consensus regarding a patient’s motivational status (no more than one professional dissenting) the patient was recruited. Patients with severe cognitive or language difficulties or medical conditions held to affect engagement with rehabilitation (for example, depression) were excluded. After nine months of sampling, categories emerging from the analysis of the interviews began to repeat and no new categories were emerging. This was taken to indicate that the most salient issues had been identified, and sampling was discontinued.

Interviews—Interviews were conducted by the patient’s bedside at an average of six weeks after the stroke and were tape recorded and transcribed. Each interview covered the same general topics, although the patient was free to structure the conversation within each topic. New topics brought up by the patients were discussed as and when they arose. All interviews were conducted and analysed by the same researcher (NM), who knew whether patients were described as having high or low motivation. A random sample of interviews was analysed by a second member of the study team (PP) to check that there were no differences in the ways in which high and low motivation patients were interviewed.

Analysis—The interviews were analysed by content. Initially, interview transcripts were read for

General topics covered in interviews with stroke patients

• Confidence about making a good recovery
• Views about relationship with professionals
• Ideas about important factors in recovery
• Ideas about the patient’s role in rehabilitation
• Ideas about the nature and purpose of rehabilitation
• Feelings about what sort of life is desired after the stroke

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emergent themes, which were then coded. Care was taken to ensure the codes accurately captured the respondent's meaning. The codes in each interview were then compared with those in each other interview to create broader categories that linked codes across interviews (constant comparison\(^1\)). Again, care was taken to ensure that these broader categories did not distort the respondent's meanings. For example, “it is important to work in rehabilitation”; “my own effort will bring rehabilitation gains”; and “I work with the therapists” are examples of codes of emergent themes, and “I have an active role in rehabilitation” would be the category serving to link these themes.

Results

Sample

Fourteen patients were identified as having high motivation and eight as having low motivation. The table gives details of the participants.

Patients' views and beliefs

The role of rehabilitation and the patients' role in rehabilitation—While all the patients thought that rehabilitation had a role in their recovery, many high motivation patients (and only a few low motivation patients) believed that rehabilitation had the most important role. Many patients thought they had an active role in rehabilitation and thought they had to apply effort to make gains. Only low motivation patients thought they ought simply to wait for recovery.

Understanding rehabilitation—A few high motivation patients emphasised the importance of learning to perform rehabilitation exercises in the manner specified by therapists. Only low motivation patients, however, spontaneously reported not understanding the nature of rehabilitation exercises. Though walking was the most commonly reported goal of rehabilitation, some patients reported not understanding the therapeutic process leading towards that goal: “The ultimate aim is to get me walking . . . I don’t understand the steps. How they [the physiotherapists] plan it” (patient 14, low motivation).

The role of nurses in rehabilitation—Many high motivation patients (but no low motivation patients) spontaneously claimed that they understood the specialist role of the stroke unit nurses in rehabilitation: “A lot of the nurses are cruel to be kind. ‘There’s the bowl, there are your washing things, get on with it’ . . . I think that's essential” (patient 20, high motivation). Some of these patients criticised nurses for not being more involved in rehabilitation or for overprotecting the patient. In comparison, some low motivation patients spontaneously claimed not to understand the nurses' role in rehabilitation and expressed frustration that the nurses didn’t do things for them.

Independence as a rehabilitation goal—Many high motivation patients were worried about depending on others after they left hospital. Most of these patients thought that progress in rehabilitation meant developing independence in activities of daily living. Some low motivation patients also expressed independence as a goal, although few linked this goal to progress in rehabilitation.

Influences on patients' beliefs

Some patients spontaneously reported that a range of factors affected their beliefs about rehabilitation.

Overprotection—A few patients reported overprotection from family members or stroke unit nurses, or both, which made them feel "stupid" and incapable. One low motivation patient, who expressed independence as a goal, described how her daughter convinced her that rest (not rehabilitation) was the most appropriate treatment.

Comparisons with other patients—One patient took the example of a stroke patient who recovered well as a source of confidence in her own recovery. Other patients, however, reported feeling depressed at the fact they were not rehabilitating as well as other patients.

Information from professionals—The information-giving role of the professionals on the stroke unit was emphasised by many high motivation patients and comparatively few low motivation patients. Some high motivation patients described how information from staff led their thinking away from any “magic” solution to their problems (for example, “miracle drugs”), to focus instead on taking an active role in rehabilitation. One such patient reported how information about the rehabilitation plan helped to keep him determined: “I’m determined, yes. The physios are very good here, they’re very encouraging and they explain things to you. Cos you don’t know what the plan is, do you, unless they tell you. So then you know all the pain and everything is worth it” (patient 17, high motivation). Other high motivation patients explained how information helped them to understand rehabilitation goals and to recognise when they were making progress. This provided reassurance that rehabilitation was working.

The need for information and support—Many low motivation patients reported anxieties that they thought stemmed from a lack of information and support from professionals on the stroke unit. One patient described how she felt less personally involved because she did not understand her rehabilitation exercises, and another described being too afraid to participate in rehabilitation because of her lack of understanding. She thought information and encouragement from therapists would help. Some patients who wanted to leave hospital also reported uncertainties over how they would cope at home. One related this anxiety to what he perceived as a lack of information from staff and described how this compromised his desire to participate in rehabilitation: “These doctors don’t give you too much information . . . only say ‘Oh you’re going home’ and that’s it . . . And when it happens again, that’s it, back to square one, which would be a waste of time going to a gym . . . it’s a strain on your mind all the time,
we’re doing this for nothing” (patient 9, low motivation). In addition, a few low motivation patients felt unable to speak out against what they saw as the stroke professionals’ decisions, for fear of being rejected by staff.

Mixed messages—A few low motivation patients described some of the stroke unit professionals as giving out unhelpful “mixed messages.” One patient reported that physiotherapists encouraged her to work at rehabilitation. On returning to the ward, however, she thought the nurses discouraged such effort by putting her to bed. This resulted in confusion regarding the correct way to behave. “The help was good downstairs [in the physiotherapy gym] but when I come up here, I go to bed again so what can I do? . . . So I don’t know what is good or bad . . . I just don’t know . . . you can’t bother people just because you want to learn how to walk” (patient 5, low motivation). Another low motivation patient doubted the point of physiotherapy as her leg had been injured when nurses were putting her in a wheelchair. This patient also reported feeling less inclined to attend rehabilitation when she discovered that her goal of returning home was deemed unrealistically high. Another low motivation patient described feeling obliged to let the nurses wash him as this was the “law” in the hospital.

Desire to leave hospital—Almost all the patients wanted to leave hospital as quickly as possible. In addition, some cited this desire as a main motivating factor for doing rehabilitation exercises. Most of these patients resented the institutional feel of the hospital. Some complained that the ward environment was depressingly unstimulating.

Discussion

Advantages of study

The value of qualitative methods in researching patient attitudes is well recognised. Semistructured interviews that allow patients considerable control over the conversation are an efficient way to investigate an underresearched topic and to allow patients to explain their beliefs accurately in their own terms.

The age, sex, and ethnic mix in our sample suggest that a broad range of viewpoints has been covered. While generalisability is not a central aim of qualitative research, attaining this sort of diversity of opinion is.

Limitations of study

Our sample excluded patients with severe linguistic or cognitive impairments and patients diagnosed with disorders that we considered would affect motivation (for example, depression)—a sizeable proportion of stroke patients. As we interviewed patients who had been identified as having low or high motivation, it might seem that we have sampled patients who happen to fall under professional labels rather than those who actually are motivated or unmotivated. There is no consensus, however, regarding what motivation actually is. Use of clinical judgment about which patients are motivated or unmotivated is a reasonable way to begin to investigate motivation empirically.

What is already known on this topic

Rehabilitation professionals have long held that patient motivation affects outcome, but little research has been conducted into the nature of motivation

Clinical rehabilitation literature has relied on unsupported models of motivation as a character trait of the individual patient

If motivation affects outcome, its nature and determinants ought to be better understood

What this study adds

Patients with stroke identified as having high motivation for rehabilitation were found to align themselves more closely to the aims and methods of rehabilitation professionals, and were more likely to understand the nature and purpose of their rehabilitation, than those identified as having low motivation

Information about rehabilitation, favourable comparisons with other stroke patients, and the desire to leave hospital were positive determinants of motivation; overprotection from family members and professionals, lack of information and the provision of mixed messages about rehabilitation to patients, and unfavourable comparisons with other patients were negative determinants of motivation

Rehabilitation professionals and carers ought to be aware of the ways in which their behaviour affects motivation

Clinical implications

If motivation is linked to understanding rehabilitation (especially understanding the role expected of the patient by rehabilitation professionals), and if this understanding is related to the possession of information about rehabilitation, then motivation might be increased through the provision of more extensive and more efficiently communicated information. When we carried out this study there was no formal provision of information about rehabilitation to patients on the stroke unit. Provision of information to patients could conceivably diminish the negative effects of overprotection, unfavourable comparisons with other patients, and the encouragement of a role at odds with the one prescribed by rehabilitation. In addition, information about setting goals and involving the patient in the process of setting these goals have previously been proposed as positive determinants of motivation. It might be especially important for nursing staff to avoid giving out “mixed messages” about what is expected of rehabilitation patients. The constant contact nurses have with patients gives them an important input in rehabilitation.

In general, clinical awareness of the ways in which factors beyond the patient’s control can affect motivation might reduce the temptation to place sole responsibility for being motivated on to the individual patient. Several studies have suggested that the person-
ality trait model of motivation prevalent in much of clinical literature, which does place this sort of responsibility on patients, can negatively affect engagement with rehabilitation. 20 21

Implications for further research
Further research into the determinants of motivation is required. Ethnographic research into how patients are treated by rehabilitation professionals on the basis of labels such as “motivated” and “unmotivated,” and the effects this might have on motivation, seems warranted. Research into how patients themselves categorise motivation might also be useful. All such research might help in maintaining motivation among rehabilitation patients, a task often taken to be “the most important, yet the most difficult part of the work of the therapeutic professions.”

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Contributors: NM refined the study design, performed a literature search, conducted and analysed the interviews, wrote the paper, and is guarantor. PP, CW, and AR were involved in the original study design, refining the study design, and drafting the paper.

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