Integrated care in Norway: the state of affairs years after regulation by law

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Abstract

Introduction: A mandatory multidisciplinary plan for individual care, the ‘Individual care Plan’, was introduced by law in Norway in 2001. The regulation was established to meet the need for improved efficiency and quality of health and social services, and to increase patient involvement. The plan was intended for patients with long-term and complex needs for coordinated care. The aim of this study was to elaborate on knowledge of such planning processes in Norwegian municipalities.

Method: A piloted questionnaire was sent to 92 randomly selected municipalities in 2005–2006, addressing local organization and participation in the work with individual care plans. Local political governance, size of the population, funds available for health care, and problems related to living conditions were indicators for analysing the extent to which the individual care plan was used five years after the regulation was introduced.

Results: Our results showed that 0.5% as opposed to an expected 3% of the population had an individual care plan. This was independent of the political, social and financial situation in the municipalities or the way the planning process had been carried out. The planning process was mostly taken care of by local health and social care professionals, rather than by hospital staff and general practitioners.

Discussion and conclusion: The low number of care plans and the oblique responsibility among professionals for planning showed that the objectives of the national initiative had not been achieved. More research is needed to determine the reasons for this lack of success and to contribute to solutions for improved multidisciplinary cooperation.

Keywords

health policy, health planning, patient care management, primary health care, patient centred care, individual care plan
Introduction

According to both scientific and government publications, a growing number of people need better coordination of care across health and social services that involve a number of carers [1–5]. International research shows that coordinating models have been initiated and established mainly at local levels and as projects more often than as permanent services [6]. The Norwegian government decided to try another approach. The ‘Individual care Plan’ was introduced by law in 2001 at national level, giving patients the right to receive managed and coordinated care and to be involved in the process of shaping their own services [7].

Since the law was passed, all kinds of patients in need of wide-ranging health and social services over time have had a legal right to an individual care plan including a named person to coordinate the services. It has been estimated that about 30 per 10,000 people or 3% of the population might benefit from such a plan. The numbers are based on statistics for illness and disability in Norway [3]. An individual care plan includes an outline of the patient’s objectives and resources as well as the services required, independent of diagnosis or age or level of care. Typical patients covered by the legislation include people with a severe psychiatric diagnosis, disability, or drug addiction, as well as elderly patients with comorbid conditions who need coordinated care across organizational boundaries. The planning process is to be started as soon as requested by any party, including the patient, next of kin or legal guardian. The health or social provider is expected to offer an individual plan as a natural part of treatment. This plan is not a substitute for the patient record and does not contain detailed social or health personal data. The areas mapped are mainly needs and resources in health, finances, housing, and social life as well as kindergarten, education or work. The main function is administrative: to define goals and tasks for selected areas, specify the responsible providers and indicate a schedule or timetable. The collaborative process is essential and even professionals outside health and social care, mainly teachers, can initiate and participate in the care planning process. They can mutually benefit in their work in relation to, for instance, a disabled child by cooperating across organizational boundaries.

The Norwegian Directorate of Health has prepared guidelines, held courses, and initiated projects to inform professionals and managers about individual care plans and to ensure that both hospitals and municipalities achieve proper planning processes. Although great efforts have been made to stimulate the use of individual care plans, a national survey has indicated that interest in using individual care plans has been low or modest [8].

The purpose of this study was to explore the use of individual care plans in Norwegian municipalities that are responsible for primary care and social services:

1. How extensive is the use of individual care plans?
2. Is deployment of the plans influenced by the municipality’s size, local political dominance, or financial situation, or by indicators of living conditions in the municipality?
3. How do municipalities initiate and organize the process of implementing individual care plans?

Norwegian municipalities are run by local councils. Most of their health and social care duties are regulated by law and are financed by general grants or national earmarked grants. However, there are variations due to local political government, prioritizing of available resources, and differing needs [9,10]. There are also variations in living conditions [11].

Methods

Selection of participants

A sample of all 420 municipalities was selected in two steps following the approach suggested by Groves et al. [12]. First, the municipalities were proportionally stratified into three groups according to size following the classification provided by Statistics Norway (SSB): small (<5000 inhabitants), medium-sized (5000–19,999 inhabitants) and large (≥20,000 inhabitants) [13]. From each group, 20% was randomly chosen by throwing a dice, i.e., 46 small, 30 medium-sized and 16 large municipalities. The largest municipalities were represented by drawing one or two internal districts according to their size.

Questionnaire

We did not identify any validated questionnaire suitable for our purpose and had to develop one from scratch. National and international literature and theory describing coordinated and multidisciplinary care as well as our own experience with individual care plans were used as the background [5, 14–16]. The first section in the questionnaire covered information about characteristics of the municipalities, such as size and deployment of individual care plans. The second section comprised questions about who initiated an individual care plan, who managed the plan, and who participated throughout the planning process, including patients and next of kin. We used a combination of yes/no questions and 5-point Likert scales where 1=‘always’ and 5=‘never’. The questionnaire was piloted by asking 11 nurses,
social workers and patients who were familiar with the concept of individual care plans to go through it [17]. They were then interviewed about their opinion of both the questions and the layout of the questionnaire. A few minor changes were made as a result.

Data collection and analyses

The questionnaires were distributed by post in November 2005. Two reminders were sent, and the last response was received in July 2006. As there are minor organizational variations nationwide, we decided to simply ask the municipality administration to identify the person who had the best local overview of, or knowledge about use of individual care plans and hand over the questionnaire to this person.

The municipality reference number was used to link the questionnaire with additional demographic information about each municipality from the public information source in [9–12]. An index was used for living condition problems, based on the sub-indices social assistance, mortality, disabled pensioners, rehabilitation assistance, violence, unemployment, transitional benefits and proportion with schooling limited to compulsory education [10]. Data were analysed using SPSS version 16.0. Frequencies were used to describe the distribution and organizational aspects of the care plan processes. One-way analysis of variance (ANOVA) tests were carried out to analyse structural correlations between characteristics of the municipalities and distribution of individual care plans. One-way ANOVA tests were also conducted to analyse coherence between distribution of individual plans and organizational factors.

Ethical considerations

The survey was approved by both the Norwegian Social Science Data Services (NSD) and the Regional Committee of Medical Research Ethics (REK).

Results

In total, 61 (66%) municipalities responded out of the 92 municipalities to which the questionnaire was sent (small municipalities 31/46 (66%), medium-sized 21/30 (70%) and large municipalities 9/16 (56%). Thirty-two (53%) leaders in health or social care and 27 professionals (44%) answered the questionnaires. Altogether 50 (82%) municipalities stated the number of patients with an individual care plan in their municipality, including 23 (38%) which gave an approximate number of plans. Thirty (49%) municipalities knew the exact number of plans. Municipalities that gave the exact or approximate numbers of plans are treated alike in analysing prevalence of plans. All municipalities were included in analysing organizational matters.

Individual care plans in relation to municipality characteristics

In the municipalities that had stated their number of individual plans, the average number of people with individual care plans was 50/10,000 inhabitants (range 40–150 of 10,000) consequently, of the eligible patient group expected by health authorities, just under 1700/10,000 (17%) had a plan.

Table 1 shows that the size of the municipality had no significant influence on its relative number of plans. Neither did we find any significant relation between the number of individual care plans and municipal health and social care funding, political governance or the municipal index for living condition problems.

Management of individual care plans in the municipalities

The planning process was divided into three phases: initiation of plan, appointment of individual care plan manager, and the collaborative planning process.

| Table 1. Prevalence of individual care plans in relation to municipality characteristics |
|----------------------------------------------------|---------------------------------------------------|-----------------|
| Public indicator values | Number of individual care plans per 10,000 inhabitants | One-way ANOVA |
| Size of municipalities | | |
| Small <5000 | 62 (n=24) | $F_{(2,47)}=2.034$, $p=0.142$ |
| Medium-sized 5000–19,999 | 39 (n=18) | |
| Large ≥20,000 | 49 (n=8) | |
| Free available municipal funding per inhabitant in health and social care | | |
| Low funding <10.00 NOK | 45 (n=5) | $F_{(2,46)}=0.284$, $p=0.754$ |
| Medium funding 10.00–19.99 NOK | 53 (n=42) | |
| High funding ≥20.00 NOK | 34 (n=2) | |
| Political governance | | |
| ‘Red’ wing parties | 55 (n=32) | $F_{(1,46)}=0.570$, $p=0.454$ |
| ‘Blue’ wing parties | 46 (n=18) | |
| Index of living conditions problems | | |
| Upper half 1.0–5.0 | 47 (n=26) | $F_{(1,45)}=0.986$, $p=0.326$ |
| Lower half 5.1–10 | 57 (n=24) | |

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Table 2 shows that nurses initiated and managed individual care plans most often, compared with others. Social workers, nurses, and teachers participated most frequently in the collaboration. Patients or next of kin did not often initiate plans themselves. Hospital staff and general practitioners (GPs) participated overall to a low extent. We found a relationship between levels of initiation and management in the groups of nurses, social workers and general practitioners. Analysing municipal distribution of plans with variables in Table 2 showed no significant correlation.

Collaboration and documentation methods

We asked for collaborative and documentation routines in order to map organizational aspects relating to the development of individual care plans.

Table 3 shows that drawing up an individual care plan is usually a collaborative process. Meetings were the most common form of collaboration, followed by telephone conversations. Our survey showed that nearly all the professionals participating in planning processes had access to ICT tools, but specific templates or applications for plans were seldom used in the documentation. A word processor seemed to be the preferred tool. Even handwriting was still fairly extensively used. Analysing coherence between prevalence of individual plans in the municipalities and planning activity methods yielded no significant results.

Discussion

This survey shows that the deployment of individual care plans is still far from covering the expected needs, five years after they became a legal right and after other initiatives launched by health authorities. Municipality authorities are responsible for the implementation of individual care plans, but local demographics or organization of planning processes do not seem to influence the deployment.

Study limitations

Professionals in different positions answered the questionnaire, because local authorities were able to choose the respondent on behalf of the municipality. Many municipalities did not have a complete overview of the local work done in relation to individual care plans and could not answer some of the questions. This may have introduced a bias of which we are unaware.

A larger sample might have improved the statistical reliability in general. The sample size covering a fifth of the population was considered sufficient for analy-
sis due to the stratification and overall homogenous, nationally regulated structures in Norwegian municipalities. We did not find any demographic or geographic differences between respondent and non-respondent municipalities. We do not believe that the non-respondents would have caused results favourable to the deployment or use of individual care plans [18]. In all, we do not expect that an increase in the population size would have influenced our conclusion.

Another weakness is that all the information we have obtained about patients’ experience and involvement in the use of individual care plans comes from answers given by the service providers.

Deployment of individual care plans

Individual care plans have been regarded as an aspect of integrated care internationally [19]. We believe that Norway’s systematic national approach to care planning is unique in being mandatory for all service providers on an equal basis. It assumes and requires multilevel and multidisciplinary collaboration that is broader and includes more services than has been customary in many instances [6, 20]. According to political statements in Norway, the use of individual care plans is an important indicator of quality of care and user satisfaction [21].

However, our study provides no explanation for the low number of plans and the lack of overview of their number of plans. This may indicate modest interest or local barriers to individual care plans as a model of care. Small municipalities have generally invested more in health care services than large ones, and municipalities with a high degree of funding at their disposal for health and social care have spent more money on elder care than other municipalities [22, 23]. We did not find that this pattern applied to individual care plans. Political views and financial allocations are important at national level, but—as demonstrated here and by others—the differences between political wings fade away locally [24].

Table 3. Distribution of collaboration activity and documentation tools in working with individual care plans in municipalities (n=61)

| Collaboration                        | Always/often | Occasionally | Seldom/never | Missing/no answer |
|--------------------------------------|--------------|--------------|--------------|------------------|
| Meetings                             | 51 (83%)     | 6 (10%)      | 0 (0%)       | 4 (7%)           |
| Only one author                      | 8 (13%)      | 7 (12%)      | 41 (67%)     | 5 (8%)           |
| Telephone                            | 9 (15%)      | 18 (30%)     | 29 (47%)     | 5 (8%)           |
| Mail correspondence                  | 8 (13%)      | 8 (13%)      | 39 (64%)     | 6 (10%)          |
| E-mail correspondence                | 2 (3%)       | 6 (10%)      | 47 (77%)     | 6 (10%)          |
| Documentation                        |              |              |              |                  |
| Electronic patient record            | 8 (13%)      | 3 (5%)       | 40 (66%)     | 10 (16%)         |
| Specialized ICT tool for IP          | 16 (26%)     | 4 (7%)       | 29 (47%)     | 12 (20%)         |
| Word processor                       | 37 (61%)     | 8 (13%)      | 5 (8%)       | 11 (18%)         |
| Handwritten plans                    | 14 (23%)     | 8 (13%)      | 29 (48%)     | 10 (16%)         |

Municipal organization of the work with individual care plans

National health authorities manage specialist care in Norway, but the municipalities have considerable autonomy in their organization and implementation of social and primary care. To achieve well-organized individual care plans of high quality, the need for suitable structures for collaboration and understanding of roles as well as for patient empowerment is emphasized [25–27]. Few patients had claimed an individual care plan on their own initiative in spite of intensive information campaigns and their statutory right to such a plan. One reason might be uncertainty among patients about the benefits [28]. Another reason may be that information was not perceived as expected [29]. Patients who have an adequate individual care plan, however, report that it has contributed to better quality of life [30].

The association between initiation and management of individual care plans we found may indicate that initiating professionals end up managing the plan. Such mechanisms can easily lead to a skewed workload among staff, and might thus have become a barrier to further deployment of plans. Our survey revealed that in the complex coordination of the plans, some professions (e.g., nurses and teachers) were more committed to the planning process than others. This did not follow the traditional hierarchy of patient treatment presented in literature on professions, but showed other layers of responsibility as this management work may have a lower status than other clinical decisions and treatment [31–33].

The low participation of general practitioners in work with individual care plans does not harmonize with the situation of chronically ill patients who depend on and expect involvement from their general practitioners in rehabilitation [34]. Reasons suggested include work patterns socialized in medical education as well as workload [35, 36]. Instead, general practitioners leave multidisciplinary collaborative work to other personnel
Conclusion

Our study supports earlier research indicating that establishing sustainable integrated collaborative care is complicated. Despite legal obligations and national initiatives by the authorities, multidisciplinary teamwork across organizational boundaries in health and social care is challenging. There may be reasons below supervisory economic and political levels that should be explored.

Authors’ contribution

Jorunn Bjerkan has been in charge of the data collection and writing process as part of her PhD project. Marie Richter participated in developing and carrying out the questionnaire process, as well as in capturing and analysing the statistical material. Ragnhild Hellesø, Anders Grimsmo and Jytte Brender provided ongoing critical appraisal and contribution of the approach, writing process and interpretation of the results. All authors have accepted the final version of the article.

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