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Ten years of integrated care: backwards and forwards. The case of the province of Québec, Canada

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Abstract

Introduction: Québec’s rapidly growing elderly and chronically ill population represents a major challenge to its healthcare delivery system, attributable in part to the system’s focus on acute care and fragmented delivery.

Description of policy practice: Over the past few years, reforms have been implemented at the provincial policy level to integrate hospital-based, nursing home, homecare and social services in 95 catchment areas. Recent organizational changes in primary care have also resulted in the implementation of family medicine groups and network clinics. Several localized initiatives were also developed to improve integration of care for older persons or persons with chronic diseases.

Conclusion and discussion: Québec has a history of integration of health and social services at the structural level. Recent evaluations of the current reform show that the care provided by various institutions in the healthcare system is becoming better integrated. The Québec health care system nevertheless continues to face three important challenges in its management of chronic diseases: implementing the reorganization of primary care, successfully integrating primary and secondary care at the clinical level, and developing effective governance and change management.

Efforts should focus on strengthening primary care by implementing nurse practitioners, developing a shared information system, and achieving better collaboration between primary and secondary care.

Keywords

integrated care, health care system, chronic disease, health policy, Quebec/Canada
1. Introduction

Like other developed countries, Canada faces a rapidly growing elderly and chronically ill population that represents a major challenge to healthcare delivery systems. This is a challenge for Canada since its health care system is poorly-ranked among the developed countries with respect to indicators of performance in the care of chronic diseases [1–3]. This poor ranking is attributable to a system focused on acute care, fragmented delivery and deficiencies in patient centeredness, among other factors [1]. Adjusting healthcare delivery systems to improve care for people with chronic conditions is the primary focus of many reforms, as well as localized initiatives run in various Canadian provinces in order to improve service coordination and/or integration, reduce resource waste, fragmented care and patient dissatisfaction and improve cost-effectiveness [4].

Canada is a federation of 10 provinces and three territories. Provision of health care is a provincial and territorial responsibility, allowing considerable flexibility in health policy at the provincial and territorial level [5]. Consequently, rather than describing the situation in all Canadian provinces, it is more appropriate to provide an in-depth description of the situation in a specific province, hence this article will examine Québec.

The purpose of this article is first to describe the transformation currently underway and the results of recent initiatives in integrated health and social care, more specifically for people with multiple chronic diseases. A wide-ranging review of the scientific and grey literature (1998–2010) was conducted using different combinations of the following key words: chronic care model, chronic disease management, chronic disease model, elders, aged, hospital, acute care, barrier, incentive, disincentives, facilitators, and obstacles. Searches were conducted in Ovid MEDLINE, EMBASE, Psychinfo, CINAHL, Cochrane Library, Scirus, Pubmed, Google scholar and Google. Specific web sites were also consulted, such as those of the Québec Ministry of Health and Social Services. Our focus is on the extent to which system-wide transformation and localized initiatives achieved the integration objective, and to identify barriers and facilitators to achieving such integration. In the last section, we suggest potential future clinical, organizational and research developments.

In this paper, the definition of integration is based on components of integration identified by Leutz [6], Nies and Berman [7] and Kodner and Spreeuwenberg [8]. Integration has been recently conceptualized in Québec, as ‘the process of combining social and health services in order to meet the needs of the frail elderly, through alignment of financial, administrative, and clinical management incentives and modalities with the clinical practices of the multidisciplinary team in charge of their health and social care’ [9, p. 3].

2. Health and health care system imperatives

Like all Western countries and many emerging countries, Québec faces a dual transition: a demographic transition (an ageing population) and an epidemiological transition (prevalence of chronic diseases over pandemic infections).

Québec has over 7.5 million people, of which 14.3% are aged 65 and over [10]. Fully 73% of persons 65 years of age and older suffer from at least one chronic health condition [11]. The population is ageing and the prevalence of chronic diseases is increasing faster in Québec than elsewhere in Canada [11, 12]. Multimorbidity is becoming the rule rather than the exception in the Québec health care system [13, 14], and its impact is felt in every part in the health care system. For example, 50% of the patients seen in primary care have five or more chronic diseases, which increases to more than 70% for persons aged 65 and over [15].

Chronic diseases have a significant impact on the health of the Québec population and influence quality of life, activity restriction, and mortality rates [13, 16]. Moreover, the management of chronic diseases poses challenges to quality of care. Some 30% of Canadians with a chronic disease report medical mistakes, medication errors or laboratory errors [17]. Poor discharge planning, lack of recommended care, and lack of a treatment plan are also frequently reported [2, 17–19], and this may lead to hospital readmission or visits to the emergency room [2]. In Québec, several gaps in quality of care have been also reported [20, 21].

3. Recent reforms in the province of Québec

The Quebec healthcare system is publicly funded with universal access to medical and hospital care. The system has a long history of integration at the structural level combining social services, community-oriented primary health services and home care through the CLSCs (Centre local de services communautaires). Nevertheless, silos still exist at the clinical level, particularly between acute and long-term care, between secondary and primary care, and between social and medical care, preventing persons with multiple chronic diseases from getting comprehensive and coordinated care.
3.1. Health and social service centres and local health and social services networks

3.1.1. Description

In December 2003, the National Assembly of Québec adopted a law entitled An Act respecting local health and social services network development agencies, which was expanded in November 2005 (An Act respecting health services and social services). The main objective of these changes was to improve accessibility, continuity, integration and quality of services for the population of a given area through the development of local organizational and clinical projects, in particular for persons with impairments or mental health problems and persons with chronic diseases [22].

Ninety-five CSSS (Centre de santé et de services sociaux—Health and Social Services Centres) (shown at the centre of the figure in Figure 1) were created through the merger of several organizations operating in the same well-defined geographical area [23, 24]. CSSSs merge CLSC, long-term care centres and public or privately owned commissioned nursing homes (Centre d’hébergement de soins de longue durée—CHSLD). In addition, 79 of these CSSSs also include a general hospital (Centre Hospitalier de Soins Généraux—CHSGS) and a rehabilitation centre.

These new CSSSs had to develop contractual agreements with other providers inside or outside their service areas to provide the services needed by the local population and create RLS (Réseaux locaux de services—Local Health and Social Services Networks). Other service providers include community pharmacies, volunteer agencies, medical clinics, tertiary-care university hospitals, youth centres, etc. Two principles served as the basis for the reform: a shift from a ‘service-based’ to a ‘population-based’ approach—meaning responsibility for accessibility, support, and health of the population of the health area—and a hierarchy of services (primary, secondary and tertiary care) [25].

The CSSSs are organized around nine programmes: public health, general services, people with impairments related to ageing, physical disability, intellectual disability, pervasive developmental disorders, youth in difficulty, dependencies, mental health and physical health. For instance, an intervention continuum has been developed for ageing-related loss of independence (PALV), which covers all prevention, healing and support interventions for persons with social or health problems generally associated with an ageing-related loss of functional independence [26].

Apart from these nine programmes, some CSSSs experiment or implement multidisciplinary teams based on the Chronic Care Model [27–29] in order to manage specific chronic diseases, such as chronic obstructive pulmonary disease (COPD), diabetes and depression. For instance, the Côte-des-Neiges diabetes management team (consisting of a coordinator, a community organizer, two nurses, a dietician, a foot care technician, a social worker and an exercise consultant) uses information technologies to collaborate with clinic-based physicians [30]. This experimental research

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**Graph 1.** Health and social service centers and the local health and social services network (adapted from the Québec Ministry of Health and Social Services [23]).
programme was discontinued due to lack of secure long-term funding [26].

A network of integrated services for persons with COPD has been in development in Montreal since 2002 [31, 32]. The goal of this network is to provide integrated follow-up to persons with COPD through a group of partners, such as CSSSs, secondary home care with respiratory equipment (a regional service of home care for pulmonary patients), hospitals and attending physicians. An evaluation of this network is currently underway.

3.1.2. Evaluation

Results of an evaluation of the CSSSs deployment are not available yet. However, recent studies show that the different institutions of the healthcare system are becoming increasingly integrated, even if it is an ongoing process [21]. A philosophy of collective responsibility and a population-based approach has emerged [13]. There is greater alignment between organizational structures and the strategic vision of a population-based approach within CSSSs [24].

3.2. Primary care reform: family medicine groups and network clinics

3.2.1. Description

In Québec, primary care has traditionally been based on family physicians in private practice that are paid on a fee-for-service basis. The primary care system has endured several reforms over the last few years. Recently, the main organizational change has been the implementation of family medicine groups (GMFs—Groupe de Médecins de Famille) [33].

A Groupe de Médecins de Famille is a group of family physicians (6–12) who are collectively responsible for a large group of patients (1000–2200 patients per full-time equivalent physician) and work in close collaboration with the nurses in their clinic [22, 34, 35]. GMFs have been implemented in order to provide easier access to a family physician, extend the hours of access to family physicians, improve the quality of general medical care, improve patient follow-up and service continuity by strengthening links with other healthcare providers such as CSSSs, and avoid unnecessary visits to emergency rooms. The GMF reform supports the recruitment of nurses and administrative support staff and the acquisition of equipment (information technology). Sharing activities with nurses is deemed essential. The GMF reform depends on the implementation of advanced nurse practitioners—a new profession in Québec, rarely found until now in primary care. Recent legislation on sharing tasks and responsibilities across different health care professionals supports this transition [21]. While implementation is on a voluntary basis, there are some small financial incentives for family physicians [21], without significant changes to the dominant fee-for-service payment procedures [23]. In July 2010, there were 210 accredited GMFs [22].

3.2.2. Evaluation

The emergence of the GMFs represents an improvement in the organization of primary care [33, 36, 37]. Two multi-method studies conducted on the first GMFs to be implemented [36, 37] showed that the collaboration among physicians and between physicians and nurses have improved [36, 37]. Patient satisfaction has also increased as a result [37]: they perceive improvements in the accessibility to primary care [37], communication with the health professionals [37], physician nurse coordination, comprehensive care and their own education [36, 37]. Moreover, patients are more loyal to their GMF than comparable medical clinics [36, 37]. Job satisfaction among physicians has increased since they feel less isolated and less under a burden of heavy duties [37]. Nurses also report a very high satisfaction level [37]. In addition, a larger multi-method study conducted in 2005 on primary care services in Québec [33] showed that GMFs models promoting organizational accountability, longer-term patient management, and offering a mix of consultation options (e.g. walk-in clinics, by appointment or telephone consultations) maximize accessibility and continuity of care, particularly for patients with chronic diseases.

Network clinics (Cliniques réseau) represent the second phase of the strategic reorganization of primary care services and are currently being implemented. The aim of these clinics is to ensure better integration between the new CSSSs and family physicians, specifically in the Montreal area where integration is more challenging. The Montreal metropolitan area presents major challenges to integration due to: 1) the numerous physician clinics unevenly distributed over the area, 2) the various locations where physicians can practice (clinics regrouping family physicians and specialists, solo practices and institutions such as CLSCs, nursing homes and general hospitals) and 3) geographical concentration of hospitals with emergency departments in the downtown area [38]. To facilitate the integration process, the network clinics play a coordinator and liaison role with the CSSS. The network clinics give access to a complete range of primary care services, including consultations with and without an appointment, 365 days per year, 12 hours/day during the week and 8 hours/day during weekends and holidays. They also include on-call services outside of office hours for vulnerable patients, guaranteeing access to a physician at all times [38, 39]. It should be noted, however,
that the effectiveness of these network clinics have not yet been evaluated.

### 3.3. Localized initiatives to improve integration

Apart from the reforms described in Sections 3.1 and 3.2, localized initiatives were also implemented to improve integration for persons with chronic diseases, particularly older persons. Several models have been developed and implemented in Québec in response to the fragmentation of care. The emphasis is on the transformation of the health care service configuration to improve health and utilization outcomes. While not providing an exhaustive list, this section provides and contrasts some illustrative examples.

#### 3.3.1. Hospital models

These models were initiated in hospitals. More specifically, they were developed for inpatients (in emergency departments or units of care) or for outpatients.

Model developed for emergency departments: Rapid emergency department intervention targets older patients in the emergency department who are at risk of functional decline and other adverse outcomes. The intervention comprises two steps: (1) identification of high-risk patients using a screening tool, and (2) a brief standardized nursing assessment to identify unresolved problems, notify the family physician and home care providers, and make other referrals as required. Results of a multicentre randomized trial reveal that the intervention increased the rate of referrals to the patient’s family physician and home care services [40] and has helped people secure early provision of home care [41]. The intervention was associated with a significantly reduced rate of functional decline at 4 months [40] without increasing costs [42].

Models developed on units of care: OPTIMAH (Optimizing care of hospitalized elderly persons) is a model that implements interventions in units of care and emergency departments in order to prevent functional decline related to geriatric syndrome and iatrogenic complications [43]. This approach is based on the principles of Acute Care for the Elderly [44]. When an older person is in the emergency department or is hospitalized in a unit of care, a mobile multidisciplinary geriatric team, led by a nurse, visits him/her. The nurse assesses risk factors with AINEES, a tool designed to measure vital signs in the elderly [45]. AINEES provides an overview of the older patient’s response to his or her care and treatments with a focus on independent living and falls, the integrity of skin, nutrition, elimination, cognitive state and behaviour, and sleep. Based on the assessment, the nurse develops a therapeutic plan and plays a leadership role with the treatment team and other caregivers. The implementation and impacts of this framework have not yet been evaluated.

#### 3.3.2. Community-based integrated models

The SIPA model (Services intégrés pour les personnes âgées) was implemented in Montréal. Its goals were to respond appropriately to the needs of older persons with disabilities, to maintain and promote the independence of older persons and their capacity to make choices while respecting their dignity, and to optimize the use of community-, hospital- and institutional-based resources [46]. The model has the following characteristics: (1) an integrated system of community-based care, offering front and second-line health and social services, including short- and long-term care provided in both the community and institutions; (2) responsibility for providing care to a specific population; (3) a clinical model that includes all services; (4) a method of prepayment by capitation, coupled with financial responsibility for all services delivered; and (5) public management in accordance with the fundamental principles of the Canadian Health Act.

A randomized controlled trial examined the impact on utilization and cost of services, quality of care and the organization of services. The results showed that SIPA increased accessibility to health and social home care with more intense home health care and decreased hospital alternate-level inpatient stays (‘bed blockers’), and had the potential to reduce hospital and nursing home utilization with no difference in total overall costs [47]. Moreover, the satisfaction of SIPA caregivers increased, with no increase in caregiver burden [47].

Another coordination service, PRISMA (Programme de recherche sur l'intégration des services de maintien de l'autonomie), is based on six components: (1) coordination of decision makers and managers at the regional and local levels; (2) a single entry point; (3) a single assessment instrument coupled with a case-mix management system; (4) case management; (5) individualized service plans; and (6) a computerized clinical chart.

PRISMA has been evaluated in a population-based quasi-experimental study with three experimental and three comparison areas. The results on impact on functional decline were inconclusive, patient satisfaction was higher, patient empowerment was preserved and the number of visits to emergency rooms was lower than expected [48].
Based on the components of SIPA and PRISMA, the Québec Ministry of Health and Social Services supports the implementation of networks of integrated services for older persons (Réseaux de services intégrés aux personnes âgées—RSIPA). The implementation process is under evaluation.

4. Discussion

Québec has a history of strong integration of health and social services [13]. Recent evaluations of the current reform designed to integrate all health and social care services in each geographical territory showed that the various institutions of the healthcare system are becoming more integrated [21].

This literature review suggests that some components are paramount to the integration of the health care system: 1) homogeneity of the goals across the multiple levels of the system: financial, organizational and clinical level; 2) a health care system rooted in primary care; 3) specialized services in support of primary care; 4) comprehensive assessment of patients’ needs; 5) implementation of case managers for patients with multiple and complicating health and social problems; 6) enhanced interdisciplinary practices, particularly close collaboration between nurses practitioners and family physicians; 7) coordination of patients’ trajectories and patients’ transitions across multiple health and social services and multiple settings (e.g. GMFs, hospitals, nursing homes); 8) information exchanges between professionals, providers and settings, ideally through the implementation of a shared clinical and administrative record; 9) measures of system outcomes and their links to patient outcomes in order to favor continuous quality and management improvement.

However, the implementation of such components presents many challenges. A consultation of Québec experts [13, 21] and various studies [13, 24, 25, 36, 37, 49] outlined the three greatest challenges:

- reorganization of primary care,
- integration of primary and secondary care, and
- efficient governance and change management.

4.1. Reorganization of primary care

The organization of primary care is still unsatisfactory. A large proportion of people with complex health needs have no family physician. The implementation of GMFs provides some hope of a solution, but building primary care teams and developing interdisciplinary practices remains a challenge [32]. For example, family physicians have found it difficult to change their practices from working alone to collaborating with the nurse practitioners within the GMFs, and some physicians practice as if nurse practitioners were not available [49]. In primary care, case management is still very limited. Another barrier to the implementation of an integrated approach (such as case management and coordination of services) is the fee-for-service for physicians [21].

Despite these barriers, there are some encouraging signs. Administrative and nursing staff, newly available in GMFs, help structure key components of primary care reform [36, 37, 49]. Interdisciplinary work takes time to implement [36, 37] and may be facilitated by establishing a relationship of trust and a vision shared by all physicians that nurses be considered collaborators rather than assistants [36, 37]. Interdisciplinary collaboration can be further facilitated by having physicians and nurses jointly develop the follow-up protocols and by dedicating time and space for communication [36, 37]. These arrangements promote a common understanding of goals pursued through clinical team work and help overcome interprofessional conflicts [49]. In addition, patient empowerment through education, shared decision-making, and access to medical records might facilitate the current reform [50]. Nevertheless, we still need to know more about the nature of relationships in interdisciplinary teams [30] and determine efficient processes for implementing interdisciplinary care [51].

4.2. Integration of primary and secondary care

The current reforms demonstrate that one of the ongoing weaknesses lies in poor collaboration between primary and secondary care. Difficulties are still being encountered at the structural level in specifying the responsibilities of primary and secondary care [25]; however negotiations between GMFs and their CSSS are in progress [21, 25, 37]. The target population for primary and secondary care still needs to be determined based on the degree of complexity of the patient. Localized initiatives tested in Quebec have been mostly designed either for primary or secondary care. The performance of care processes is still assessed in silos and performance in terms of overall patient trajectories has yet to be evaluated [25]. Canada and Quebec in particular continue to face difficulties in patient access to care due to the insufficient number of family physicians and specialists [3]. The heavy workload imposed on these professionals created an additional barrier to their collaboration.

At the clinical level, primary care and secondary care are provided in parallel, and significant coordination problems remain [9]. One of the major barriers to coor-
diation are gaps in clinical information sharing and a significant lag in the use of information technologies [3, 13, 25, 36] as well as difficulties adopting and using some of the electronic medical records that have been implemented [30, 52]. There is a recognition in Québec that care provided before, during and after a hospitalization should be integrated, but no concrete actions have been entertained in this area [53]. Transition models are an avenue for development in Quebec. These models are based on a range of actions to ensure coordination and continuity of health care [54, 55]. They refer to a range of time-limited services and environments designed to ensure health care continuity and avoid preventable poor outcomes in at-risk populations as they move from one level of care to another, among multiple providers, and/or across settings. Ideally, these models are comprehensive (across diseases, providers and settings) and longitudinal, with linkages across sites of care and between medical and social services [56]. They strive for coordination between the goals of patients, caregivers, family members and healthcare providers [56]. Different models have been successfully implemented in the US where they have been proven efficient: patients were less likely to be rehospitalized [57, 58], health outcomes were improved, and health care costs were reduced [59–61].

4.3. Governance and change management

In terms of governance, there are three challenges: 1) to effectively coordinates pre-existing entities (hospitals, nursing homes, and community-based services) merged into CSSSs, 2) to develop local health and social services networks with providers in the community, and 3) to adopt a population-based approach [24].

Recent studies show that there is still inadequate clinical governance in CSSS-based services: lack of support for clinical decisions (lack of information systems, shared patient records, guidelines and care protocols) [21]. Organizational governance is also sometimes lacking [21]. Clinical services continue to operate in silos, even within the CSSSs [21]. Hierarchies are expanding and bureaucracy is increasing [25], while the implementation of 95 CSSSs with responsibility for promoting population health and delivering services should have encouraged decentralization. A sure sign of the push for centralization is the paperwork that is imposed on local medical clinics to obtain their GMF status [36]. The focus is on standardizing structures and practices, which is perceived as preventing adaptation to the local context [21]. Organizational culture is rarely focused on performance evaluation [25]. There remains poor financial integration within the healthcare system: there are financial silos between institutions and programmes [21], a lack of financial accountability for the population of a geographical area [21], and the payment of professionals is not related to performance of services [21].

Despite these challenges, there are encouraging signs. In some cases, regional authorities have been instrumental in the implementation of recent reforms [25, 36, 37]. Moreover, expertise in public health is well developed and structured in Québec [13, 21] and competencies are being developed in the organization of care [21]. Integration is facilitated by governance with a clear mission and vision, strong leadership and change management strategies. Moreover, studies show that the integration process is facilitated by the emergence of a local leadership within CSSSs and GMFs [25, 30, 36, 37, 49]. It is essential to have a leader—a “sense-maker in chief”—who plays a critical role in shaping the direction of the current reform [24]. This leader needs to have in-depth knowledge and experience in the organization and be able to foster a sense of continuity by connecting the current transformation to historical antecedents and past experiences [24]. Two other facilitators are good communication and consultation mechanisms established by the CSSSs and a tradition of partnership between the various institutions, with increasing accountability supported by a culture of continuous quality improvement and ongoing performance measurement [25]. In addition, a mixed payment structure for family physicians and for a subset of medical specialists is slowly being implemented including higher fee-for-services for vulnerable patients and fixed amounts for administrative and coordination tasks [21].

5. Conclusion

Solutions are needed for managing chronic diseases, and many reforms and localized initiatives are addressing the problem. Despite reforms, changes and reorganizations, the Québec health system is struggling to deal with the challenge of patients with a single chronic illnesses [13], let alone patients with multiple chronic diseases. To meet this challenge, a strategic implementation of clinical, technological and organizational changes is required to provide patient-centered care: strengthening primary care, implementing a shared information system, and improving collaboration between primary and secondary care.

Québec also needs to develop health services research [25], since there are major gaps in the knowledge needed for optimal healthcare of a large and increasing population of adults with multiple chronic
conditions, as well as a lack of widespread translation and implementation of interventions shown to be effective. There is still a shortage of scientific information for appraising the efficiency and effectiveness of the proposed models [13, 51].

Québec has many assets for achieving a successful transformation, including its integration of health and social services and many innovative projects and programmes that have been tested in different parts of the health system.

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