Impact of the Quebec Alzheimer Plan on the detection and management of Alzheimer disease and other neurocognitive disorders in primary health care: a retrospective study

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Abstract

Background: The Quebec Alzheimer Plan aims to improve care provided to patients with neurocognitive disorders in Family Medicine Groups (FMGs) (multidisciplinary team-based primary care practices). The objective of this study was to determine changes in the detection and management of neurocognitive disorders following implementation of the plan, in 2014.

Methods: This was a retrospective chart review before and after implementation of the Quebec Alzheimer Plan in 13 FMGs. We reviewed 1919 randomly selected charts of patients aged 75 years or more and 945 randomly selected charts of patients in this age group with neurocognitive disorders. In the first group, selected outcomes were proportion of patients with documentation of cognitive status, documented diagnosis of neurocognitive disorder, documented cognitive testing and referral to a memory clinic. In patients with neurocognitive disorders, the outcomes were number of contacts with an FMG, quality of follow-up score (documented assessments in 10 domains: cognitive testing, functional status, behavioural and psychological symptoms of dementia, weight, caregiver needs, driving status, home care needs, community service needs, absence of anticholinergic medication and management of dementia medications) and proportion referred to a memory clinic.

Results: Significantly more patients aged 75 or more had documentation of cognitive status in their chart after plan implementation than before implementation (440 [45.1%] v. 351 [37.2%]) (odds ratio [OR] 1.46, 95% confidence interval [CI] 1.18–1.81). No significant changes were found in documented diagnosis of neurocognitive disorders, cognitive testing or referral to a memory clinic. Among patients with neurocognitive disorders, the number of contacts with an FMG (adjusted mean difference 1.6, 95% CI 0.3–2.8) and quality of follow-up score (adjusted mean difference 6.6, 95% CI 3.9–9.2) increased significantly, without significant changes in the number of referrals to a memory clinic.

Interpretation: The results suggest that the Quebec Alzheimer Plan is feasible and beneficial in terms of detection and management of neurocognitive disorders, without an increase in referral to specialists. The findings will be used to scale up the Quebec Alzheimer Plan and to develop the Canadian federal dementia strategy.

Neurocognitive disorders are a major concern worldwide.¹ Today, an estimated 35.6 million people are affected, and this number is expected to double by 2030.¹ Nevertheless, the identification, treatment and management of patients with neurocognitive disorders remains sub-optimal. Deficiencies in cognitive evaluation and delayed diagnosis result in only half of patients' being identified.² Inappropriate referral of typical cases to specialists³ results in increased wait times for referred patients.⁴ People with neurocognitive disorders also experience inadequate treatment and poor quality of care, including use of potentially inappropriate medication, and poor support for their caregivers,^{5,6} which increases the risk of adverse outcomes.^{6–9} To address these challenges, the World Health Organization has called neurocognitive disorders a public health priority and has encouraged

countries to develop dementia action plans.^{1,10} Worldwide, 32 national and subnational plans exist.¹¹ In the last 2 decades, several Canadian provinces have developed or are developing plans, and a national dementia strategy has been proposed.¹² A particularity of the Canadian plans is that they are rooted in primary health care, which follows the recommendations of Canadian guidelines on dementia care.^{13,14} The first phase of

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the Quebec Alzheimer Plan¹⁵ was implemented in 2014¹⁶ in 42 Family Medicine Groups (FMGs), which are multidisciplinary team-based primary care practices.^{17,18} A detailed description of the plan is presented in Appendix 1 (available at www.cmajopen.ca/content/7/2/E391/suppl/DC1).

A particularity of the Quebec Alzheimer Plan is that it includes an evaluation strategy. To date, only the French and UK plans included an evaluation plan; neither focuses on primary health care.^{19–21} Moreover, to our knowledge, none of the Canadian plans, which do focus on primary care, have been evaluated. It is thus not clear whether plans based in primary health care improve the care provided to patients with neurocognitive disorders. Our team was mandated by the Quebec Ministry of Health and Social Services to conduct an evaluation to inform a province-wide scale-up. Our study aimed to provide an early-phase evaluation and to determine whether the detection and management of neurocognitive disorders among older patients in primary health care improved after implementation of the Quebec Alzheimer Plan.

Methods

Design

We used a retrospective review of independent, randomly selected patient charts before and after implementation of the Quebec Alzheimer Plan to measure the plan's impact. We selected this design over a traditional pre–post evaluation as it mimics more closely a randomized controlled trial.²² The chart review was performed in 13 of the 42 FMGs that participated in the first phase of the plan. We selected these 13 FMGs because they were part of public health organizations, which allowed access to charts for research purposes, and they included enough patients to meet sample size requirements (Appendix 2, available at www.cmajopen.ca/content/7/2/E391/suppl/DC1). Two 9-month periods were considered: a period preceding implementation of the plan (Oct. 1, 2011, to July 1, 2012) and a period following implementation (Oct. 1, 2014, to July 1, 2015). For 6 recently created FMGs, the pre period was Oct. 1, 2012, to July 1, 2013 (Appendix 3, available at www.cmajopen.ca/content/7/2/E391/suppl/DC1). We chose these identical calendar periods to control for seasonal effects and to avoid summer vacation.

This study used a participatory research approach^{23,24} whereby decision-makers, clinicians, patient/caregiver representatives and researchers were involved as coinvestigators during every phase of the study.

Study populations and outcomes

We obtained chart data for 2 samples: patients aged 75 years or more, and patients aged 75 years or more with neurocognitive disorders. We selected the cut-off of 75 years to ensure a sufficient number of eligible charts of patients with neurocognitive disorders, given the high prevalence of dementia in this population.²⁵ For both populations, only patients with a visit to the FMG during the relevant study period were eligible. To ensure independence and avoid overlap, only charts not assessed in the pre period were selected in the post period.

The population of patients aged 75 or more served to obtain data on outcome indicators around the detection of neurocognitive disorders: documentation of cognitive status (note regarding normal cognition, concerns of possible decline by clinician or caregiver, results from cognitive test scores or dementia diagnosis), documented diagnosis of a neurocognitive disorder (dementia, mild cognitive impairment or unspecified neurocognitive disorder), cognitive testing, referral to a memory clinic and justification for referral. Referrals were considered justified if there was an uncertain or differential diagnosis, the presence of depression or behavioural issues, family request or genetic testing. Blank referrals and those including a cognitive status test score without further evaluation were considered unjustified.^{14,15}

We collected additional data for patients with neurocognitive disorders to examine indicators of the management and quality of follow-up care. Indicators were the number of contacts with the FMG (in person or by telephone), a quality of follow-up score, use of antipsychotic medication, use of memantine or cholinesterase inhibitors prescribed by the FMG, number of referrals to a memory clinic following diagnosis and justification for referral. Antipsychotic medication included medications belonging to the phenothiazine, butyrophenone, thioxanthene or atypical antipsychotic classification as per the American Hospital Formulary Service Pharmacologic–Therapeutic Classification through Health Canada Drug Product Database online query.²⁶

We based our quality of follow-up indicators on validated tools,²⁷ current recommendations and consensus guidelines.^{14,15,27,28} These indicators consisted of documented assessments in 10 domains: cognitive testing, functional status, behavioural and psychological symptoms of dementia, weight, caregiver needs, driving status, home care needs, community service needs (e.g., Alzheimer Society), absence of anticholinergic medication and management of dementia medications. For the identification of anticholinergic medication, we used the Beers criteria, based on the Anatomical Therapeutic Chemical classification system.²⁹ The score was based on the validated Assessing Care of Vulnerable Elders–3 approach²⁷ and was calculated by summing the number of indicators performed divided by the number of eligible indicators for each patient. We assessed patients' eligibility for each indicator over the study period (e.g., patients who no longer drove would not need a driving evaluation).

We measured site- and patient-level characteristics.

Data collection

Administrative lists of patients aged 75 years or more were extracted and anonymized. Charts were randomly selected from the lists. We first identified charts of patients aged 75 years or more. For patients in this age group with neurocognitive disorders, we also used an existing vulnerability code in the administrative lists to narrow the search for neurocognitive disorders. Data were collected from the charts and then entered into a secure Web-based database. We tested and refined the database and a detailed 23-page instruction manual through a pilot study.³⁰

Stringent quality-control measures were put in place during data collection. A senior research nurse trained and monitored a group of 12 research nurses and assistants to conduct the chart review. She performed ongoing quality-control checks for each chart and followed up with the team regarding inconsistencies or data entry errors. The statistician involved in the study also conducted quality-control analyses to uncover irregularities. Problematic entries were reassessed and errors corrected if needed. Because of this close monitoring, there were no missing data for any of the variables studied.

Statistical analysis

To determine whether the detection and management of neurocognitive disorders changed after the Quebec Alzheimer Plan was implemented, we analyzed the association between study period (before and after implementation) and the study outcomes, adjusting for patient characteristics (age, sex and number of medications). The number of medications is considered a suitable proxy for the level of comorbidity given the incomplete data in the charts on active chronic diseases and the high correlation between the number of medications and number of conditions.³¹ We fitted a linear and logistic mixed-effects model for continuous and binary outcomes, respectively. As patients within sites were likely more similar than patients across sites,

we adjusted the models for the clustered nature of the data by including a site identifier associated with each patient as a random effect in the model. The value of the intraclass correlation coefficient was obtained for each outcome. We used the SAS procedures PROC MIXED and PROC GLIMMIX (SAS 9.3, SAS Institute) to model the associations.

Ethics approval

The study was approved by the Research Ethics Board of the Centre intégré universitaire de santé et de services sociaux of West-Central Montréal and the ethics committees affiliated with each FMG. Institutional authorization was obtained from each regional health organization where applicable.

Results

Of the 13 FMGs, 7 (54%) were university-affiliated, and 6 (46%) were in urban locations (Appendix 3). The median number of registered patients per site was 16 696 (interquartile range 9080–26 408). The median number of full-time-equivalent physicians was 18 (interquartile range 15–20).

Of 3568 potential charts, 1195 (33.5%) were excluded (Figure 1). Data for 1919 patients aged 75 years or more and 945 patients aged 75 or more with neurocognitive disorders

Figure 1: Flow chart showing the screening of eligible charts of patients aged 75 years or more and those aged 75 or more with neurocognitive disorders (dementia, mild cognitive impairment or unspecified neurocognitive disorder) before and after implementation of the Quebec Alzheimer Plan. *Of the 945 patients, 491 were identified while screening for patients eligible for the age 75 or more group.

were collected. The majority of patients in the former group were women (574 [60.8%] before plan implementation and 577 [59.2%] after) (Table 1). The mean patient age was 81.9 years (standard deviation [SD] 5.0 yr) and 81.7 years (SD 5.0 yr) in the 2 periods, respectively. Patients aged 75 or more with neurocognitive disorders were also predominantly female (286 [62.9%] before plan implementation and 300 [61.2%] after) (Table 2). The corresponding mean patient age was 84.0 (SD 5.3) years and 83.6 (SD 5.1) years. The main types of neurocognitive disorders before and after plan implementation were dementia (304 [66.8%] and 299 [61.0%], respectively), unspecified neurocognitive disorders (82 [18.0%] and 107 [21.8%], respectively) and mild cognitive impairment (70 [15.4%] and 84 [17.1%], respectively) (Table 2).

Significantly more patients aged 75 or more had documentation of cognitive status in their chart after plan implementation than before implementation (440 [45.1%] v. 351 [37.2%]) (odds ratio [OR] 1.46, 95% confidence interval [CI] 1.18–1.81) (Table 3). The corresponding numbers of patients with neurocognitive disorders were 255 (26.2%) and 208 (22.0%) (OR 1.25, 95% CI 0.98–1.60); this difference did not reach statistical significance. No change was detected in the proportion of patients aged 75 or more who underwent cognitive testing between the 2 periods (137/940 [14.6%] before implementation and 166/972 [17.1%] after implementation) (OR 1.21, 95% CI 0.92–1.60) or were referred to a memory clinic (22/886 [2.5%] and 19/901 [2.1%], respectively) (OR 0.84, 95% CI 0.42–1.68). Most of the referrals before and after implementation were justified (14/22 [64%] and 16/19 [84%], respectively).

Among patients with neurocognitive disorders, the mean number of contacts with an FMG increased significantly

Table 1: Characteristics of patients aged 75 years or more before and after implementation of the Quebec Alzheimer Plan

Characteristic	No. (%) of patients*	
	Before n = 944	After n = 975
Female sex	574 (60.8)	577 (59.2)
Age, yr, mean $\pm$ SD	81.9 $\pm$ 5.0	81.7 $\pm$ 5.0
Age group, yr		
75–79	408 (43.2)	439 (45.0)
80–84	286 (30.3)	299 (30.7)
$\geq$ 85	250 (26.5)	237 (24.3)
No. of medications, mean $\pm$ SD	11.3 $\pm$ 6.9	11.8 $\pm$ 6.9
Living alone		
Yes	179 (19.0)	204 (20.9)
No	458 (48.5)	495 (50.8)
Missing	307 (32.5)	276 (28.3)

Note: SD = standard deviation.
*Except where noted otherwise.

after plan implementation, from 7.9 (SD 10.2) to 9.9 (SD 9.7) (adjusted mean difference 1.57, 95% CI 0.30–2.84) (Table 4). A significant increase in the mean quality of follow-up score was observed, from 48.0 (SD 20.0) to 54.6 (SD 18.8) (adjusted mean difference 6.58, 95% CI 3.92–9.23). All except 2 (cognitive testing and no anticholinergic medications) of the 10 indicators in the quality follow-up score improved after plan implementation. A significant decrease in the number of patients receiving antipsychotic medication was observed, from 117 (25.7%) before implementation to 98 (20.0%) after implementation (OR 0.66, 95% CI 0.47–0.95). Last, no change was detected in the proportion of patients referred to a memory clinic following diagnosis (40/338 [11.8%] before implementation v. 29/340 [8.5%] after implementation [OR 0.66, 95% CI 0.37–1.16]). Most postdiagnosis referrals were justified both before and after implementation (31/40 [78%] and 27/29 [93%], respectively).

Table 2: Characteristics of patients aged 75 years or more with neurocognitive disorders before and after implementation of the Quebec Alzheimer Plan

Characteristic	No. (%) of patients*	
	Before n = 455	After n = 490
Female sex	286 (62.9)	300 (61.2)
Age, yr, mean $\pm$ SD	84.0 $\pm$ 5.3	83.6 $\pm$ 5.1
Age group, yr		
75–79	118 (25.9)	137 (28.0)
80–84	149 (32.8)	174 (35.5)
$\geq$ 85	188 (41.3)	179 (36.5)
No. of medications, mean $\pm$ SD	12.7 $\pm$ 6.8	13.6 $\pm$ 7.2
Type of neurocognitive disorder		
Dementia	304 (66.8)	299 (61.0)
Alzheimer disease	117 (38.5)	141 (47.2)
Vascular	18 (5.9)	17 (5.7)
Mixed	88 (29.0)	58 (19.4)
Lewy body	12 (4.0)	5 (1.7)
Frontotemporal	3 (1.0)	1 (0.3)
Other	4 (1.3)	2 (0.7)
Unspecified	62 (20.4)	75 (25.1)
Mild cognitive impairment	70 (15.4)	84 (17.1)
Unspecified	82 (18.0)	107 (21.8)
Living alone		
Yes	64 (14.1)	83 (16.9)
No	343 (75.4)	372 (75.9)
Missing	48 (10.6)	35 (7.1)

Note: SD = standard deviation.
*Except where noted otherwise.

Table 3: Mixed-effects model results for patients aged 75 years or more before and after implementation of the Quebec Alzheimer Plan*

Variable	No. (%) of patients		OR (95% CI)	ICC
	Before n = 944	After n = 975		
Documentation of cognitive status	351 (37.2)	440 (45.1)	1.46 (1.18–1.81)	0.03
Documented diagnosis of neurocognitive disorder	208 (22.0)	255 (26.2)	1.25 (0.98–1.60)	0.02
Dementia	127 (13.4)	141 (14.5)	–	–
Mild cognitive impairment	41 (4.3)	52 (5.3)	–	–
Unspecified	40 (4.2)	62 (6.4)	–	–
No documented diagnosis of neurocognitive disorder	736 (78.0)	720 (73.8)	–	–
Cognitive testing†	137 (14.6) n = 940	166 (17.1) n = 972	1.21 (0.92–1.60)	0.03
Referral to memory clinic‡	22 (2.5) n = 886	19 (2.1) n = 901	0.84 (0.42–1.68)	0.04
Justified referral§¶**	14 (63.6)	16 (84.2)	–	–
Uncertainty	6 (42.9)	7 (43.8)	–	–
Family request	1 (7.1)	5 (31.2)	–	–
Presence of depression	1 (7.1)	2 (12.5)	–	–
Complex medication management	3 (21.4)	0 (0.0)	–	–
Complex patient management	6 (42.9)	6 (37.5)	–	–
Other reason¶††	2 (9.1)	0 (0.0)	–	–
Unjustified referral¶	6 (27.3)	3 (15.8)	–	–
No prior evaluation	3 (50.0)	2 (66.7)	–	–
Blank referral	3 (50.0)	1 (33.3)	–	–

Note: CI = confidence interval, ICC = intraclass correlation coefficient, OR = odds ratio.
 *Model estimates adjusted for age, sex and number of medications.
 †Excluding patients who refused the evaluation.
 ‡Excluding patients referred before the study period.
 §Defined in accordance with Canadian guidelines.^{14,15}
 ¶Proportions of subgroups.
 **There could be more than 1 reason for referral.
 ††Documented reasons not mentioned in Canadian guidelines.

Interpretation

Our results showed that, following implementation of the Quebec Alzheimer Plan, the detection of neurocognitive disorders in patients aged 75 years or more improved, as reflected by increased documentation of cognitive status. Moreover, the intensity and quality of management of patients in this age group with neurocognitive disorders also improved, with an increase in the number of contacts with FMGs and the quality of follow-up score and a decrease in antipsychotic medication use.

The increased documentation of cognitive status among patients aged 75 or more suggests that family physicians were more aware of the importance of diagnosing neurocognitive disorders in their patients. This was similar to results in one of the few other plans evaluated, the UK National Dementia Strategy.³² However, contrary to the specialist-centred UK strategy, we observed this improvement in documentation of

cognitive status without an increase in the number of referrals to memory clinics. This suggests that the primary care focus of the Quebec Alzheimer Plan may have empowered family physicians to diagnose neurocognitive disorders without overly relying on specialists.

In older patients with neurocognitive disorders, we observed an increase in the number of contacts (face-to-face or via telephone or email) with FMGs. This is similar to what was found with a collaborative care model in the United States.³³ The Quebec Alzheimer Plan also resulted in better management of patients with neurocognitive disorders, as measured by the quality of follow-up score. Similar findings were observed in other intervention studies that looked at compliance with a list of indicators of quality of dementia care.^{34,35} Vickrey and colleagues³⁴ compared the charts of patients with dementia who received an intervention aimed at improving their care to those of patients with dementia who received usual care and found better compliance in the

Table 4: Mixed-effects model results for patients aged 75 years or more with neurocognitive disorders before and after implementation of the Quebec Alzheimer Plan*

Variable	No. (%) of patients†		Adjusted mean difference (95% CI)	ICC
	Before n = 455	After n = 490		
No. of contacts with Family Medicine Group, mean ± SD	7.9 ± 10.2	9.9 ± 9.7	1.57 (0.30–2.84)	0.12
Quality of follow-up score, mean ± SD	48.0 ± 20.0	54.6 ± 18.8	6.58 (3.92–9.23)	0.08
Cognitive testing‡	226 (50.1) n = 451	239 (49.2) n = 486	–	–
Evaluation of functional status	317 (69.7)	397 (81.0)	–	–
Evaluation of behavioural and psychological symptoms of dementia	318 (69.9)	398 (81.2)	–	–
Evaluation of weight‡§	265 (59.3) n = 447	346 (70.9) n = 488	–	–
Evaluation of caregiver needs¶	107 (24.0) n = 445	133 (28.0) n = 475	–	–
Documentation of driving status¶	52 (13.1) n = 398	98 (23.7) n = 414	–	–
No anticholinergic medication	385 (84.6)	396 (80.8)	–	–
Evaluation of home-based service needs	237 (52.1)	294 (60.0)	–	–
Evaluation of community service needs	8 (1.8)	33 (6.7)	–	–
Management of dementia medications (memantine and cholinesterase inhibitors)**	94 (54.3) n = 173	105 (66.9) n = 157	–	–
OR (95% CI)				
Antipsychotic medication	117 (25.7)	98 (20.0)	0.66 (0.47–0.95)	0.04
Memantine or cholinesterase inhibitors prescribed by Family Medicine Group††	27 (71.0) n = 38	26 (72.2) n = 36	0.81 (0.23–2.81)	0.01
Referral to memory clinic after diagnosis‡‡	40 (11.8) n = 338	29 (8.5) n = 340	0.66 (0.37–1.16)	0.001
Justified referral§§¶¶	31 (77.5)	27 (93.1)	–	–
Uncertainty	14 (45.2)	16 (59.3)	–	–
Family request	4 (12.9)	6 (22.2)	–	–
Presence of depression	2 (6.4)	3 (11.1)	–	–
Complex medication management	4 (12.9)	0 (0.0)	–	–
Complex patient management	11 (35.5)	10 (37.0)	–	–
Other reason§§	1 (2.5)	0 (0.0)	–	–
Unjustified referral§§	8 (20.0)	2 (6.9)	–	–
No prior evaluation	4 (50.0)	1 (50.0)	–	–
No justification	4 (50.0)	1 (50.0)	–	–

Note: CI = confidence interval, ICC = intraclass correlation coefficient, OR = odds ratio, SD = standard deviation.
 *Model estimates adjusted for age, sex and number of medications.
 †Except where noted otherwise.
 ‡Excluding patients who refused the evaluation.
 §Excluding patients for whom the evaluation was not feasible.
 ¶Excluding patients for whom the evaluation was not applicable.
 **Excluding patients who did not take medication or did not had a follow-up visit after the prescription.
 ††Excluding patients who received their prescription before the study period or did not take medication.
 ‡‡Excluding patients referred before the study period.
 §§Proportions of subgroups.
 ¶¶There could be more than 1 reason for referral.

intervention group (64% v. 33%). Reuben and colleagues³⁵ compared the charts of patients with dementia before and after a quality-of-care intervention and found higher compliance with quality indicators after the intervention (38% v. 46%). Direct comparison of quality scores is, however, difficult given differences in the indicators used. However, similar to these 2 studies, our study showed that clinicians performed more functional status assessments and evaluation of behavioural and psychological symptoms of dementia following implementation of the Quebec Alzheimer Plan. Like Vickrey and colleagues,³⁴ we found an improvement in the evaluation of driving status; however, the proportion of patients in whom driving was evaluated was lower than in their study. We found an improvement in documentation of management of dementia medications, whereas Reuben and colleagues³⁵ showed a decrease in the rate of documented discussion of cholinesterase inhibitors. There was a decrease in the number of patients receiving antipsychotics after implementation of the Quebec Alzheimer Plan. This may have been due to training of family physicians, but after plan implementation these rates still remained in the range of what has been found in Canada without an intervention,³⁶ and the improvement was lower than that reported by Reuben and colleagues.³⁵ An intervention specifically focused on deprescribing antipsychotics could be added to the Quebec Alzheimer Plan.³⁷ Some indicators of the quality of follow-up — evaluation of caregiver needs, of driving status and of community service needs — were performed in less than 50% of patients with neurocognitive disorders, even after plan implementation. Evaluation of caregiver needs and of driving ability is difficult, and clinicians may not feel adequately equipped to perform these evaluations.⁵ Clinicians are also not usually fully aware of existing community services.^{5,38} For these indicators, several targeted interventions at the clinical or organizational levels could be added to the plan.

Limitations

Although we could not conduct a randomized controlled trial, using randomly selected independent charts in both study periods allowed us to more closely mimic a randomized controlled trial than other quasi-experimental designs.²² The random selection of charts in the 2 periods ensured representative samples of the target population. We used a pre-post design, the best possible design given that implementation of the Quebec Alzheimer Plan was a natural experiment. In addition, the chart review allowed us to capture not only in-person physician visits but also contacts with nurses, a key aspect of FMGs, as well as telephone calls. The monitoring of data collection yielded high-quality data (no missing data). Although we could not account for potential temporal trends, our qualitative assessments (results not shown) provided support that no other interventions were ongoing during the study period that could have contributed to the observed changes. Chart reviews measure only what is documented in patients' files. However, it has been shown that increased quality of documentation is predictive of increased quality of

care.³⁹ Finally, we chose a post period early after plan implementation because of the need for rapid knowledge transfer to the Quebec Ministry of Health and Social Services before province-wide scale-up. The observed differences are thus a conservative estimation.

Conclusion

Our study contributes important knowledge on the early-phase evaluation of a dementia action plan centred in primary health care. The findings will be used to scale up the Quebec Alzheimer Plan and to develop the Canadian federal dementia strategy. Our results suggest that it is feasible and beneficial to anchor dementia plans in primary health care and that a plan centred in primary care can improve the capacity of family physicians in FMGs to provide dementia care. It seems essential that policy-makers, health care managers and clinicians be more confident in the capacity of family physicians to care for patients with neurocognitive disorders.

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