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The use of healthcare and community-based services by people living with dementia and their caregivers during the COVID-19 pandemic

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Abstract

People living with dementia have been particularly affected by the COVID-19 pandemic. A survey of dementia care professionals was conducted to assess the use of healthcare and community-based services by people living with dementia and their caregivers during the first year of the pandemic. The survey indicated that most services were no longer being used or were being used less during the pandemic, with a few key exceptions. Many barriers and few facilitators were identified to service use for people living with dementia and their caregivers. The results identify potential gaps in the dementia care service network and may inform efforts to improve dementia care during future large-scale public health emergencies in the State of Wisconsin and beyond.

Introduction

The COVID-19 pandemic has had an outsized impact on people living with dementia and their caregivers. In terms of direct impact, people living with dementia have a greater risk of diagnosis and death from COVID-19 after controlling for age, living arrangements, chronic conditions and other characteristics[1]. At the same time dementia care and healthcare delivery systems have changed substantially as a result of the pandemic[2] and people living with dementia and their caregivers have been disproportionately vulnerable to the negative impact of the COVID-19 pandemic on diagnosis and management of mental and physical health conditions and use of community-based services [3,4].

Dementia care professionals, including county dementia care specialists (DCSs), care managers and social workers, have a unique vantage point on healthcare and community-based service use by people living with dementia and may be able to identify needs and opportunities for this population during the COVID-19 pandemic. Wisconsin Department

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of Health Services contracts with counties to run Aging and Disability Resource Centers (ADRCs), which provide older adults with resources and information about programs and services. ADRCs employ DCSs to conduct memory screening, to provide information and assistance to adults with cognitive concerns, and to help develop dementia friendly communities (https://www.dhs.wisconsin.gov/adrc/dementia-care-specialist-program.htm).

Early studies during the pandemic based on physician and clinical psychologist expert opinion identified a number of barriers to health care access for people with dementia during COVID-19, including discontinuation of home care services, increased caregiver burden, suspension of nonurgent care in many areas, financial hardship and disrupted medication supply systems[3,4]. Studies based on administrative database review have assessed the impact of the COVID-19 pandemic on specific service areas, such as home care services[5], mental and community physical health services[6]. However, an assessment of a broad range of dementia care services during the COVID-19 pandemic, including related barriers and facilitators, from the perspective of dementia care professionals has not been undertaken to our knowledge. Dementia care professionals work directly with people with dementia and families to facilitate service utilization and thus have a unique and valuable perspective that has not been adequately represented in previous literature. The current project seeks to address this gap in the literature, with a particular focus on the State of Wisconsin.

Methods

A survey was created to assess the impact of the COVID-19 pandemic on two related areas: 1) changes in use of healthcare and community-based services by people living with dementia and their caregivers and; 2) factors impacting use of these services, from the perspective of dementia care professionals, to inform on quality improvement opportunities across the state. Changes in the use of 14 services were assessed using the response stem: "Please indicate how the use of the following healthcare or community-based services has changed for your clients with dementia and their caregiver(s) during the COVID-19 pandemic." Respondents chose from an ordinal scale with the following response options: 1) "Clients with dementia and caregiver(s) are no longer using this service"; 2) "Clients with dementia and caregiver(s) are using this service less than usual"; 3) "Clients with dementia and caregiver(s) are using this service the same as usual" and 4) "Clients with dementia and caregiver(s) are using this service more than usual". Fifteen factors impacting service use were assessed using the response stem: "How have the following factors changed the use of dementia care professional services, healthcare and community-based supportive services for clients with dementia or their caregivers during the COVID-19 pandemic?". Respondents chose from an ordinal scale with the following response options: 1) "This has been a barrier to service use"; 2) "This has not affected service use" and 3) "This has facilitated service use". "I don't know" was included as a response option for both survey topics to encourage respondents to only provide information about items in which they had professional or personal knowledge.

Survey questions were developed based on input from an interdisciplinary team with direct experience working with people living with dementia including dementia care professionals, clinical social workers, physicians and mental health providers. The survey was piloted with

WMJ. Author manuscript; available in PMC 2022 December 29.

a small group of dementia care professionals working within the Wisconsin Department of Health Services and was edited for relevancy of content and question clarity before being administered on a larger scale.

The survey was administered online via two networks of dementia care stakeholders, the Wisconsin Dementia Resource Network (WDRN) and a dementia care network supported by the Wisconsin Department of Health Services (DHS) comprising county dementia care specialists, tribal dementia care specialists and dementia care leads throughout the state. These networks are made up of clinical and community-based service providers as well as caregivers for people living with dementia. The survey was administered between August 28, 2020 and October 9, 2020. The project was conducted for quality improvement and therefore did not require IRB review according to the University of Wisconsin Health Sciences Institutional Review Board and federal regulations. Data were collected and managed using REDCap electronic data capture tools hosted by the University of Wisconsin – Madison[7,8] and analyzed using the R language and environment for statistical computing[9], Version 4.1.0. All reported frequencies for survey items were calculated based on the number of respondents for that survey item, not including those reporting "I don't know".

Results

The survey was sent to 331 dementia care professionals from the WDRN and DHS networks and was completed by 102 individuals (response rate 31%). The respondents predominantly identified as female (92%), White (88%), served rural settings (66%), half worked at Aging and Disability Resource Centers (54%); 34% were employed as Dementia Care Specialists, reflecting all or nearly all DCS in the State of Wisconsin. The full demographic characteristics of the survey sample can be found in Table 1.

Nearly all services queried, with a few notable exceptions, were reported by a majority of respondents as not being used or being used less than usual during the COVID-19 pandemic. Senior center programs were reported as the most negatively impacted, with a majority of respondents reporting people living with dementia and caregivers were no longer using these services (60.5%). A large proportion of respondents also reported people living with dementia and caregivers were no longer using adult day programs (40.5%) and companion/ friendly visitor services (38.8%). A majority of respondents reported only two services, medication assistance (53.1%) and meal delivery (81.1%), as being used the same or more than usual by a majority of respondents. Response data for the changes in healthcare and community-based service use during the COVID-19 pandemic are summarized in Table 2 in aggregate and stratified by area of service provision.

Several factors were identified by a majority of respondents as barriers to healthcare and community-based services for people living with dementia and caregivers during the pandemic. Some of the most frequently reported barriers included changes in access to other natural supports in their network (e.g. friends, other family members, neighbors, religious organization members) (80.7%), changes in caregiver support/respite services (78.0%), knowledge of technology/virtual tools (72.9%), compassion fatigue/caregiver

Page 4

burnout (71.8%) and access to technology/virtual tools (67.8%). Factors that a majority of respondents reported had not affected service use included changes to language services (91.2%), changes to insurance status (84.5%), changes to employment status (63.2%) and changes to financial resources (56.3%). Interestingly, although they were reported as barriers by a majority of respondents, the most commonly reported facilitators to service use were access to technology/virtual tools (18.4%) and knowledge of technology/virtual tools (14.1%). Response data for perceived barriers and facilitators to services are summarized in Table 3 in aggregate and stratified by area of service provision.

Discussion

In this quality improvement project, dementia care stakeholders were surveyed to gain insight into how the COVID-19 pandemic impacted service use for people living with dementia and their caregivers. The findings suggest that almost all healthcare and community-based dementia services have seen a decrease in use during the COVID-19 pandemic. One possible explanation of this finding is that the dementia care infrastructure in Wisconsin was not initially equipped to meet the new challenges presented by the COVID-19 pandemic resulting in a decrease in availability of desired services. Supporting this point, the two services that were reported by a majority of respondents as being used the same or more during the pandemic were medication assistance and meal delivery, two areas which already had existing infrastructure in place for at-home and contact-free access. Another explanation for the decrease in service use may have been concerns about exposure to COVID-19 in public or healthcare settings and subsequent self-imposed limitations on treatment utilization. Changes to social support networks and the more prominent role of technology during the pandemic were the most commonly identified barriers to service use. Although telemedicine has been proposed as a solution to dementia care delivery during the pandemic[10], our results suggest that it can also be a barrier to service use.

There are several considerations in interpreting the findings of this project. The survey was administered prior to FDA approval of any of the COVID-19 vaccines. Since then, access to vaccination and adaptation of service providers has likely improved access to healthcare and community-based service. Furthermore, two-thirds of respondents worked in rural areas, while according to the 2010 U.S. Census, only approximately one-third of Wisconsin's population live in rural areas (U.S. Census Bureau, 2010). Although we present stratified survey results for the reader's interest in Tables 2 and 3, the sample did not contain enough respondents working in suburban or urban settings to make rigorous comparisons between the groups. Based on the rough differences in survey responses, our preliminary results do raise the possibility that rurality/urbanicity may have had a differential impact on availability of services and types of barriers/facilitators during the early pandemic. This topic would be worth exploring further in order to more specifically address the needs of unique geographic populations. The geographic scope of the study within the state of Wisconsin and ruralpredominant survey respondents do warrant caution when generalizing the study findings to other geographic settings. Findings in other geographic regions or in more urban settings may demonstrate a distinct pattern of changes to dementia care services than observed in this project. Finally, a number of sources of potential response bias exist in the present study including missing responses from dementia care professionals working outside of the

WMJ. Author manuscript; available in PMC 2022 December 29.

survey distribution networks; the length of the survey and/or lack of incentive reducing the likelihood of survey completion by certain individuals; and respondents skewing towards extreme responses. This evaluation provides insight into dementia-related service areas in the State of Wisconsin that are particularly vulnerable to large-scale public health calamities. The results will hopefully inform public health efforts to improve dementia care provision during future pandemics.

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Table 1.

Demographic characteristics of survey respondents

Characteristic	N (%)
Gender	
Female	94 (92.2)
Male	5 (4.9)
Prefer not to answer	3 (2.9)
Race	
White	88 (88.0)
American Indian or Alaska	2 (2.0)
Asian American	1 (1.0)
Black or African American	2 (2.0)
Hispanic or Latino	2 (2.0)
Prefer not to answer	5 (5.0)
Profession	
Dementia Care Specialist	34 (34.0)
Dementia Lead	13 (13.0)
Dementia Lead Supervisor	12 (12.0)
Social Worker	6 (6.0)
Administrator	5 (5.0)
Manager	5 (5.0)
Outreach Specialist	5 (5.0)
Service Specialist	5 (5.0)
Care Coordinator	4 (4.0)
Other	11 (11.0)
Work Setting	
Aging and Disability Resource Center	54 (53.5)
Non-profit Community Organization	20 (19.8)
Managed Care Organization	4 (4.0)
State or County Health Department	4 (4.0)
Long Term Care	3 (3.0)
Memory Clinic	3 (3.0)
Health and Human Services	2 (2.0)
Healthcare Organization	2 (2.0)
Tribal Health Services	2 (2.0)
Other	7 (7.0)

Characteristic	N (%)
Work Location	
Rural	61 (60.4)
Rural and Suburban	2 (2.0)
Rural, Suburban and Urban	4 (4.0)
Suburban	12 (11.9)
Suburban and Urban	2 (2.0)
Urban	20 (19.8)

WMJ. Author manuscript; available in PMC 2022 December 29.

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Table 2.

Changes in healthcare and community-based service use by people living with dementia and caregivers during the COVID-19 pandemic

Hunt et al.

Clients with dem	entia and c	aregiver(s)	are													
	No longe	r using this	service		Using thi usual	s service le	ss than		Using this usual	service th	e same as		Using this usual	s service m	ore than	
Program	N (%)				(%) N				N (%)				N (%)			
	Т	R	S	U	Т	R	S	U	Т	R	S	U	Т	R	S	U
Senior center programs	52 (60.5)	29 (54.7)	8 (66.7)	10 (52.6)	32 (37.2)	18 (34)	3 (25)	8 (42.1)	2 (2.3)	2 (3.8)	0 (0)	(0) 0	0 (0)	(0) 0	(0) 0	0 (0)
Adult day programs	34 (40.5)	17 (32.7)	6 (50)	8 (42.1)	41 (48.8)	22 (42.3)	4 (33.3)	11 (57.9)	8 (9.5)	7 (13.5)	1 (8.3)	0 (0)	1 (1.2)	(0) 0	0 (0)	0 (0)
Companion/ friendly visitor services	31 (38.8)	14 (26.9)	6 (50)	9 (47.4)	40 (50)	28 (53.8)	2 (16.7)	7 (36.8)	7 (8.8)	4 (7.7)	1 (8.3)	1 (5.3)	2 (2.5)	1 (1.9)	0 (0)	0 (0)
Caregiver education classes	11 (14.3)	7 (13.2)	1 (8.3)	2 (10.5)	51 (66.2)	32 (60.4)	5 (41.7)	11 (57.9)	9 (11.7)	5 (9.4)	1 (8.3)	2 (10.5)	6 (7.8)	4 (7.5)	0 (0)	1 (5.3)
Caregiver support/respite services	8 (10.1)	5 (9.4)	0 (0)	2 (10.5)	59 (74.7)	34 (64.2)	6 (50)	13 (68.4)	6 (7.6)	5 (9.4)	0 (0)	1 (5.3)	6 (7.6)	4 (7.5)	2 (16.7)	0 (0)
Caregiver counseling services	6 (8.8)	2 (3.8)	1 (8.3)	2 (11.1)	54 (79.4)	34 (64.2)	5 (41.7)	11 (61.1)	5 (7.4)	4 (7.5)	0 (0)	1 (5.6)	3 (4.4)	3 (5.7)	0 (0)	0 (0)
Transportation services	6 (7.6)	2 (3.9)	1 (8.3)	3 (15.8)	52 (65.8)	32 (62.7)	7 (58.3)	9 (47.4)	18 (22.8)	12 (23.5)	1 (8.3)	4 (21.1)	3 (3.8)	2 (3.9)	0 (0)	1 (5.3)
Homecare services	4 (4.9)	1 (1.9)	1 (8.3)	2 (10.5)	58 (70.7)	35 (66)	4 (33.3)	14 (73.7)	15 (18.3)	11 (20.8)	1 (8.3)	2 (10.5)	5 (6.1)	3 (5.7)	2 (16.7)	0 (0)
Physical therapy visits	4 (5.9)	2 (3.8)	0 (0)	1 (5.3)	53 (77.9)	30 (56.6)	8 (66.7)	12 (63.2)	11 (16.2)	9 (17)	0 (0)	2 (10.5)	0 (0)	(0) 0	(0) 0	0 (0)
Assistance with medication	2 (3.1)	0 (0)	0 (0)	1 (5.3)	28 (43.8)	20 (38.5)	1 (8.3)	6 (31.6)	29 (45.3)	20 (38.5)	4 (33.3)	4 (21.1)	5 (7.8)	2 (3.8)	1 (8.3)	0 (0)
Counseling/ behavioral health visits	1 (1.4)	0 (0)	0 (0)	0 (0)	61 (87.1)	35 (66)	8 (66.7)	14 (73.7)	5 (7.1)	4 (7.5)	1 (8.3)	(0) 0	3 (4.3)	3 (5.7)	0 (0)	0 (0)
Primary care visits	1 (1.3)	0 (0)	0 (0)	0 (0)	71 (88.8)	40 (75.5)	9 (75)	16 (84.2)	7 (8.8)	5 (9.4)	0 (0)	2 (10.5)	1 (1.3)	1 (1.9)	(0) 0	0 (0)
Medical specialist visits	0 (0)	0 (0)	0 (0)	0 (0)	66 (88)	38 (71.7)	8 (66.7)	15 (83.3)	8 (10.7)	6 (11.3)	1 (8.3)	1 (5.6)	1 (1.3)	1 (1.9)	0 (0)	0 (0)

WMJ. Author manuscript; available in PMC 2022 December 29.

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Clients with dem	entia and ca	aregiver(s)	are													
	No longe	r using this	s service		Using thi usual	s service le.	ss than		Using thi usual	s service th	e same as		Using this usual	s service m	ore than	
Program	N (%)				(%) N				(%) N				(%) N			
	Т	R	S	U	Т	R	S	U	Т	R	s	U	Т	R	S	U
Meal delivery services	0 (0)	0 (0)	(0) 0	0 (0)	15 (18.3)	12 (22.6)	1 (8.3)	2 (10.5)	30 (36.6)	13 (24.5)	4 (33.3)	11 (57.9)	37 (45.1)	26 (49.1)	3 (25)	3 (15.8)

Note: T - total; R - rural; S - suburban; U - urban

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Table 3.

Factors affecting healthcare and community-based service use by people living with dementia and their caregivers during the COVID-19 pandemic

	This has he	en a harrie	to service 1		This has n	nt affected s	ervice use		This has f	scilitated se	rvice use	
Factors	N (%)				N (%)				N (%)			
	Т	R	s	U	Т	В	s	U	Т	R	s	U
Changes in access to other natural supports	67 (80.7)	38 (76)	10 (83.3)	14 (73.7)	10 (12.0)	6 (12)	1 (8.3)	2 (10.5)	6 (7.2)	3 (6)	0 (0)	2 (10.5)
Changes in caregiver support/respite service	64 (78.0)	38 (74.5)	8 (66.7)	13 (68.4)	13 (15.9)	7 (13.7)	1 (8.3)	3 (15.8)	5 (6.1)	3 (5.9)	0 (0)	2 (10.5)
Knowledge of technology/virtual tools	62 (72.9)	37 (72.5)	10 (83.3)	11 (61.1)	11 (12.9)	6 (11.8)	1 (8.3)	3 (16.7)	12 (14.1)	6 (11.8)	1 (8.3)	4 (22.2)
Access to technology/virtual tools	59 (67.8)	33 (64.7)	10 (83.3)	12 (63.2)	12 (13.8)	7 (13.7)	1 (8.3)	3 (15.8)	16 (18.4)	9 (17.6)	1 (8.3)	4 (21.1)
Compassion fatigue/caregiver burnout	56 (71.8)	31 (62)	6 (50)	14 (73.7)	11 (14.1)	7 (14)	2 (16.7)	1 (5.3)	11 (14.1)	6 (12)	1 (8.3)	3 (15.8)
Changes in familial obligations	51 (66.2)	32 (62.7)	6 (50)	8 (42.1)	18 (23.4)	10 (19.6)	2 (16.7)	4 (21.1)	8 (10.4)	4 (7.8)	1 (8.3)	3 (15.8)
Changes in appointment availability	49 (65.3)	32 (62.7)	5 (41.7)	9 (47.4)	20 (26.7)	11 (21.6)	3 (25)	3 (15.8)	6 (8.0)	1 (2)	1 (8.3)	3 (15.8)
Changes in access to primary caregiver	44 (57.1)	28 (54.9)	6 (50)	5 (26.3)	27 (35.1)	15 (29.4)	3 (25)	8 (42.1)	6 (7.8)	2 (3.9)	1 (8.3)	3 (15.8)
Changes to mental health	44 (58.7)	25 (49)	5 (41.7)	9 (47.4)	22 (29.3)	13 (25.5)	3 (25)	4 (21.1)	9 (12.0)	5 (9.8)	1 (8.3)	3 (15.8)
Changes in transportation	39 (51.3)	24 (47.1)	7 (58.3)	7 (36.8)	36 (47.4)	21 (41.2)	2 (16.7)	9 (47.4)	1 (1.3)	1 (2)	0 (0)	0 (0)
Changes to physical health	36 (48.6)	19 (38)	5 (41.7)	8 (42.1)	34 (45.9)	22 (44)	3 (25)	6 (31.6)	4 (5.4)	2 (4)	0 (0)	2 (10.5)
Changes to financial resources	29 (40.8)	16 (31.4)	6 (50)	6 (31.6)	40 (56.3)	25 (49)	4 (33.3)	7 (36.8)	2 (2.8)	1 (2)	0 (0)	1 (5.3)
Changes to employment status	23 (33.8)	11 (21.6)	3 (25)	7 (36.8)	43 (63.2)	29 (56.9)	3 (25)	8 (42.1)	2 (2.9)	1 (2)	0 (0)	1 (5.3)
Changes to insurance status	9 (15.5)	4 (7.8)	1 (8.3)	3 (15.8)	49 (84.5)	32 (62.7)	6 (50)	7 (36.8)	0 (0)	0 (0)	0 (0)	0 (0)
Changes to language services	5 (8.8)	3 (5.9)	(0) 0	2 (10.5)	52 (91.2)	30 (58.8)	6 (50)	11 (57.9)	0 (0)	(0) 0	0 (0)	(0) (0)

WMJ. Author manuscript; available in PMC 2022 December 29.

Note: T - total; R - rural; S - suburban; U - urban