Multimedia Appendix 5

Table 5.1: Identified barriers and facilitators

CFIR Construct	Barrier	Facilitator	Example Quote(s)				
Domain 1: Innovation	Domain 1: Innovation Characteristics						
Innovation Source	no data	 Trusted/respected innovation source (stakeholders) [1] Originates from a research project (stakeholders) [2] 	"the fact that the intervention was evidence-based and had an academic "name brand recognition" resulting from its origins as a university research project, was a facilitating factor for some municipalities." Author summary from [1] - Facilitator				
Evidence Strength	 Lack of pragmatic evidence (stakeholders) [3] Lack of / hard to measure outcomes relevant for 	• Evidence-based practices (caregivers & stakeholders) [1,3,4]	"However, some officials wondered whether these effects would also be obtained outside the research context." Author summary from [3] - Barrier				
& Quality	healthcare organizations/decision makers (stakeholders) [1,2]	 Pragmatic evidence (stakeholders) [2,5] Knowledge from others with lived experience as evidence (caregivers) [4] 	"This caregiver also indicated willingness to learn not only evidence-based information but also coping strategies that others employed []" Author summary from [4] - Facilitator				
Relative Advantage	 Challenging communication format (e.g. potential for misunderstandings, difficulties with written format) (caregivers & stakeholders) [3,6–8] Opportunities for distractions (e.g. using mobile phone while using intervention) (caregivers) [4] Preference for alternative therapy/face-to-face (caregivers & stakeholders) [3,4,6,9–12] 	• Convenient and easy to use an online intervention (e.g. no travel, more accessible) (caregivers & stakeholders) [2,4,6,11,13–17]	"They said that typing sensitive issues on the Partner in Balance platform could be hard for caregivers and coaches, as meanings could be more easily be misconstrued than in face-to-face conversations." Author summary from [3] - Barrier				
		Easy to express emotions online (caregivers) [18]	"The availability of the information, assignments, and feedback after the intervention was seen as an advantage over mere face-to-face support." Author summary from [13] - Facilitator				

Adaptability	• Rigid protocols/procedures (caregivers) [6,13,15,19,20]	 Materials available flexibly (e.g. on-demand, based on user-choice) (caregivers & stakeholders) [5,6,9,13,15–18,20–24] Controlled module order (stakeholders) [13] 	"However, four partners were less satisfied with the structure and the fact that they were guided through the intervention, because they felt it was unclear or did not fit their needs. As one of the partners said: "I noticed during the course that it was difficult to adapt my life and its rhythm to the rhythm of the course. Of course, one does not have exactly those needs in exactly that order I can imagine it was carefully thought out, but it did sometimes feel like someone was stepping on the brake."" [20] - Barrier "Participants said they appreciated the app's flexibility, specifically that they could do the meditations whenever and wherever they wanted, and that the meditations were short." Author summary from [23] - Facilitator
Trialability	no data	• Perceive piloting as valuable (stakeholders) [2]	"[] as well as the added value of testing interventions through pilots with local collaborations." Author summary from [2] - Facilitator
Complexity	 Unfamiliar with technology used (caregivers) [22] Lack of clear direction within intervention/Complex intervention activities (caregivers & stakeholders) [4–6,13,14,18,25] Complex implementation activities (stakeholders) [3] 	no data	"Also, while Partner in Balance was easy to understand, there were a lot of tasks and organizing involved in making it work (finding coaches, advertising, coordinating, etc), which made it somewhat complex." Author summary from [3] - Barrier

Content

- Lack of tailoring (caregiver demographics, ethnicity, care situation e.g. stage of diagnosis, COVID-19 restrictions) (caregivers & stakeholders) [4,6,9,11–13,15,18,21,26–28]
- Idealized and low diversity in caregiving scenarios (caregivers) [4,28]
- Lack of materials for providers/stakeholders (stakeholders) [3,8]
- Unmet information needs (caregivers & stakeholders) [4–7,9,12,13,16,20,25–27,29–31]
- Inappropriate language (too difficult or patronizing tone) (caregivers) [20,24,25]
- Inclusion of content/functions that are not helpful or needed (caregivers) [4,6,9,11,18,20,23,28,32]
- Need for linguistic and cultural tailoring (caregivers & stakeholders) [26,30]

Design Quality & Packaging

Intervention Structure/Components

- Lack of personalized support (caregivers) [4,9,12,15,20]
- Unmet support needs (caregivers & stakeholders) [2,5,7,9,12–15,17,20,28]
- Unclear purpose of intervention functions (caregivers) [4,6]
- Confusing or unappealing structure (caregivers & stakeholders) [4–6,20,25,27,30,31]
- Negative tone or appearance (caregivers & stakeholders) [5,6,9,13,20,25]
- Limited time to access intervention (caregivers) [4,5,15]
- Too demanding (caregivers) [26,27,32–34]
- Lack of two-way communication between provider and caregiver (stakeholders) [8]

Content

- Focus on positive (caregivers & stakeholders) [5,9,13,20]
- Useful and practical content (caregivers & stakeholders) [2–7,9,11–16,18–23,25–32,34,37–39]
- Tailored content (caregivers & stakeholders) [6,9,20,21,26,30]
- Contact with and/or information delivered from other caregivers (via peer forum, group session or caregiving vignettes) (caregivers & stakeholders) [4,6,9,13,15–18,20,21,26,30]

Intervention Structure/Components

- Intervention fully or partially independent (e.g. not dyadic) (caregivers) [9,16,27]
- Dyadic format (caregivers) [5,9,19,27,29]
- Manages individual needs within dyadic format (stakeholders) [7]
- Easy to use/well designed (caregivers & stakeholders) [5,6,8,13–15,18–25,28–31,36,39–41]
- Easy to understand language (stakeholders & caregivers) [9,25,26,34]
- Incorporation of professional support (caregivers & stakeholders)
 [4,6,9,13,15,16,18,20,21,25–27,30,32,39]
- Anonymity (caregivers) [9,13,16,20]
- Ability to track intervention usage (stakeholders) [3]
- Not too time-consuming (caregivers) [5,9,15–17,23,31,33]
- Incorporation of techniques to support engagement (e.g. homework, progress bars, reminders) (caregivers) [14,24,26,31,34]

Content

"Just the actress, Nancy, it was just like, oh yes, I've had that same problem at home... in real life, that's not how it is. She makes it seem so simple. Like, I went out with my friends, we had a great time. I feel much better. That's not how life is."

Participant quote from [28] - Barrier

"Also, participants mentioned that the intervention should have a positive approach. According to them, thinking positively and accentuating what still can be done, instead of what no longer can be done, is a source of hope and energy for both the partner and the cancer patient [...]" Author summary from [9] – Facilitator

Intervention Structure/Components

"They expected more specific and individualized advice, and more "human interaction" with professionals or peers." Author summary from [12] – Barrier

"[...] a few caregivers commented that it was "user friendly" and several mentioned that the notifications provided "a good reminder" to use the app." Author summary from [14] – Facilitator

• Inclusion of patients inhibits caregivers ability to express themselves (caregivers) [32]

Delivery format

- Limited viewing options (e.g. internet dependent, lack of audio/video material) (caregivers & stakeholders)
 [5-7,13,20,24,26,28,35,36]
- Animated delivery format undervalues the information (caregivers) [5]
- Technical difficulties (e.g. connectivity issues) (caregivers & stakeholders) [1,2,4,6,23,26,28,31,35]

Delivery format

- Use of different media (e.g. audio, video) (caregivers & stakeholders) [13,17,20,26]
- Face-to-face component (caregivers & stakeholders) [8,13,25]
- Usage across devices (e.g. laptop, smartphone) (caregivers & stakeholders) [18,26]

Delivery format

"I think having it [the program] on an Internet interface would be the really appropriate way to go, but there might be situations where Internet access isn't that available. You might think about having a separate option where you could download it." Participant quote from [5] — Barrier

"A mobile application or a web platform compatible with mobile phones, to enhance the usability of the program and make it more appealing to the younger generation was suggested by the caregivers and professionals alike." Author summary from [26] – Facilitator

Cost

- Unclear costs (stakeholders) [1]
- Belief intervention unlikely to be cost-effective (stakeholders) [3,42]
- Perceive intervention as providing value for money (stakeholders) [2]
- Perceive as low cost (caregivers) [30]

"This municipality felt that the inability of Partner in Balance to guarantee what a license would cost after the project's end was a significant barrier." Author summary from [1] – Barrier

"Good investment" Author summary from [2] - Facilitator

Domain 2: Outer Settin	ng			
Needs & Resources of Those Served by the Organization	Low population interest in eHealth (stakeholders) [1] Unsure what caregiver needs/preferences are (stakeholders) [1,3]	•	Topics suit caregiver needs (stakeholders) [2,3]	"Some respondents felt that eHealth is mainly pushed through top-down initiatives but that the population of their municipality does not express a desire for it." Author summary from [1] - Barrier "The first category of this theme "good content" showed that all groups of stakeholders had positive attitudes toward the Partner in Balance content and thought many of its components were useful and timely. The second category refers to how stakeholders (especially policy makers and health care professionals) thought that Partner in Balance met caregiver needs, []."Author summary from [2] - Facilitator
				"[] the cooperating partners had full agendas []" Participant quote from [1] - Barrier
Cosmopolitanism •	Lack of time among organizations (stakeholders) [1]	•	Approval/collaboration between multiple organizations (stakeholders) [1–3,30]	"Regarding how the implementing organizations are linked to other organizations, respondents stated that the interventions needed to be offered through an external party (not through the municipality) and cooperation with care providers would always be necessary, as they would have to agree to execute the interventions. Some municipalities reported that the SFC project had been a good chance to connect and strengthen their local dementia care networks." Author summary from [3] - Facilitator
Peer Pressure	no data	•	Digitalization in other sectors (stakeholders) [1]	"All over the community it's the digital things that are successful and also the future and so, it would be strange if the medical part doesn't take part." Participant quote from [1] - Facilitator

External Policy & Incentives	no data	• Fit between intervention and wider policy (stakeholders) [2,3]	"Yes, I think it fits within the policy yes. It fits within the informal care policy, is increasingly in line with the policy of health insurers, who say if we support informal carers then it will yield results. Also for the informal caregiver and the person they care for, so that they stay better in balance, can last longer, so I think it fits within the policy." Participant quote from [3] - Facilitator
Domain 3: Inner Set	ting		
Structural Characteristics	no data	no data	
Networks & Communications	• Lack of internal network to support implementation (stakeholders) [2,3]	Open communication channels within implementation team (stakeholders) [3]	"The implementation of the eHealth interventions was usually the sole responsibility of one person within the municipality. Municipality officials stressed that this was not enough, and that there should be a team to tackle the implementation together." Author summary from [3] - Barrier "Municipalities added that it was easy to set up the necessary meetings with the Partner in Balance team." Author summary from [3] - Facilitator
Culture	no data	no data	
Implementation Climate	no data	Lack of alternative supports available for caregivers (caregivers & stakeholders) [26]	"The consensus from all the three [focus group discussions] overall was that the existence of such an online program in itself was very encouraging considering the dearth of existing resource" Author summary from [26] - Facilitator
a. Tension for Change	no data	no data	

b.	Compatibility	 Mismatch between organizations clients and intervention target population (stakeholders) [3,13] Unfamiliar intervention approach (stakeholders) [7,13,43] Caregiver support in patient oriented systems (stakeholders) [2,13] Lack of integration within existing systems (e.g. electronic medical records)(stakeholders) [7,43] Overlap in function with existing systems (stakeholders) [7] Perceived low digital literacy among implementers (stakeholders) [3] 	 Ability to integrate intervention within workflow (stakeholders) [3,8,13,30] Flexible usage options for providers (e.g. ways of providing feedback, provider specific settings) (stakeholders) [13,43] Aligns with organizational priorities and goals (stakeholders) [1,3] 	"Coaches mentioned that elderly care organizations in the Netherlands often file caregiver support under patient care, which could create problems for the implementation of caregiver support programs when the person with dementia is not registered." Author summary from [13] - Barrier "Municipality officials mentioned that their choice of intervention depended on whether the intervention was in line with the values and policy of the municipality. In this regard, they mentioned that Myinlife and/or Partner in Balance matched their work on sustainability, caregiver support, and "staying close to the citizen."" Author summary from [1] - Facilitator
c.	Relative Priority	 Organization already involved in other interventions for caregivers (stakeholders) [13] Low priority (stakeholders) [3] 	no data	"Other barriers included involvement in other caregiver support approaches." Author summary from [13] - Barrier
d.	Organizational Incentives & Rewards	• Lack of incentives (stakeholders) [3]	no data	"[] interventions had low relative priority []."Author summary from [3] – Barrier
e.	Goals & Feedback	• Lack of goal setting (stakeholders) [3]	Ability to monitor intervention usage (stakeholders) [3]	"For both interventions, there was not enough goal setting and feedback []."Author summary from [3] – Barrier "As management is primarily interested in concrete output, it is important to keep track of the output and use of the interventions." Author summary from [3] - Facilitator
f.	Learning Climate	no data	• Multiple modes and opportunities for support from supervisors and colleagues (stakeholders) [8]	"I think it was really good and also the fact that we had so many options to attend the supervision meetings and on different days and different times. I think that was really

		good because you kind of feel supported [] if you are struggling with some participants it's good that you have that instance where you can talk to someone else and ask their opinion and so yes. I think that having that was really helpful." Participant quote from [8]- Barrier
Readiness for Implementation	• Upcoming organizational restructuring (stakeholders) [1,13]	"For instance, politically, imminent elections and the merging of three municipalities into one municipality made no data concrete planning difficult, as the budget and officials responsible might change." Author summary from [1] - Barrier
a. Leadership Engagement	• Low engagement of leadership (stakeholders) [1,3,13]	"I introduced this. My supervisor, yes, but I work in my department alone We have not really discussed it with anyone else. So, my supervisor is not actively pushing this now either." Participant quote from [3] - Barrier
b. Available Resources	• Lack of resources (stakeholders) [1,3,13]	"[] municipality officials stressed a lack of resources on the coaches' side, such as time and money, as a foreseeable barrier to effective dissemination and subsequently, implementation." Author summary from [1] - Barrier
c. Access to Knowledge &	 Unclear clinical guidelines for handling information collected from intervention (stakeholders) [7,43] Lack of time/support to become familiar with (stakeholders) 	"Clinicians raised a second, related issue: whether data provided by the caregiver alone should be included as part of the patient's medical record." Author summary from [7] – Barrier ing and support materials [8] "However, [Project Chief Investigator]
Information	intervention (stakeholders) [8,13]	provided a Word document which had some of the ideas that we had during the training, so some ACT consistent feedback that we discussed. So, I referred back to that if I was ever stuck and then again if I was unsure as

Domain 4: Individual Characteristics

- Perceive online interventions as impersonal (caregivers & stakeholders) [4,6,11,12,16,20,22]
- Negative views of mental health treatments (caregivers) [9,31]
- Concerns about negative impact on caregiver (e.g. increase isolation, negative reactions) (caregivers & stakeholders) [6,13,17,25,31]
- Challenging to build therapeutic relationship (stakeholders) [8]
- Privacy concerns (caregivers & stakeholders) [3,7,10,17,31,43]
- Perceive intervention not appropriate for everyone/cannot be used alone (stakeholders) [1,2]
- Perceive information as emotionally challenging or confronting (caregiver) [6,9,12–14,16,20]
- Perceive no benefit for caregiver (caregiver) [17]
- Perceive as time consuming (stakeholder) [8]
- Liability concerns (stakeholder) [3]
- Negative view of eHealth and its implementation (stakeholders) [1,2]

- Facilitates sense of connection with other caregivers (caregivers) [4,9,15,17,22,30]
- Benefits provider (e.g. learning opportunity) and facilitates caregiver-provider relationship (caregivers & stakeholders) [1,3,7,8,13,21]
- Reduce isolation (caregivers) [4,13,15,21,22,25,28,30]
- Normalizes and validates lived-experience (caregivers & stakeholders)
 [4,5,9,13,15,18,20,21,27,28,34]
- Benefits caregiver (e.g. improves outlook, well-being, self-care, knowledge, communication, skills, relationships)
 (caregivers & stakeholders) [1,2,5,6,8,12–23,28,31,32,35,36,38,40,41,44]
- Support motivates intervention use (caregivers) [9,13,18,20,31]
- Perceive e-mental health as positive (caregivers & stakeholders) [1,31]
- Perceive as time efficient (stakeholder) [3,8]
- Facilitates support for caregivers in rural settings (stakeholders) [30]
- Fills support gap/improves access to support (caregivers & stakeholders) [8,21]

"Some professionals also expressed concerns about the suitability of Internet use for caregivers, since most of them were spouses of patients and likely inexperienced with this technology. Some also thought that computers might increase caregivers' isolation." Author summary from [25] – Barrier

"Caregivers indicated that Pep-Pal was helpful in normalizing many isolating aspects of the caregiving experience, such as the unpredictability of daily caregiving responsibilities. Caregivers also described Pep-Pal as being helpful in providing a sense of social cohesion with other caregivers' experiences, notably without connecting them to other caregivers."

Author summary from [28] - Facilitator

Self-Efficacy

Knowledge &

Innovation

Beliefs about the

no data

Building confidence to deliver intervention (stakeholders) [1,3,8]

"Municipality officials reported that successful coaches had confidence in the intervention and their own ability to use it to help their clients." Author summary from [3] - Facilitator

Individual Stage of Change	 Feel care recipient should change (caregivers) [13] Not providing intervention at the right time (caregivers) [5,9,10,12,13,20,28] Difficulty accepting help (caregivers) [9,10] Not emotionally ready (caregivers) [12,13,16] 	no data	"This would have been more useful prior to beginning the current chemo[therapy] regimen and not now at the end of things," [] "Not interested at this time—at the time of initial diagnosis, [I] did spend a lo of time looking up information." Participant quotes from [10] - Barrier
Individual Identification with Organization	no data	• Positive connection with organization staff (caregivers) [4,9,13]	"Participants with a familiar coach reported an intensified relationship after working through the intervention together. Being able to speak freely online and becoming acquainted with the coach on a different level deepened their existing bond." Author summary from [13] - Facilitator
Other Personal Attributes	 Perceived or known low digital literacy among caregivers (caregivers & stakeholders) [1,3,4,6,9–11,13,25,26,30] Low access to internet/computers (caregivers) [9,10,12,13,26] No interest in type of intervention offered (caregivers) [10,11,20,27,39] Perceived no need for support/unaware of need (caregivers) [9–12,16,20,27] Care recipient related challenges to participation (e.g. not wanting care recipient to know they are receiving intervention, don't want to dedicate time to something other than care recipient) (caregivers) [6,9,13,31] Caregivers are busy/too many other responsibilities (caregivers & stakeholders) [4,5,11,13,16,20–23,26,27,29,30,38] Support needs met in other ways (e.g. existing social network) (caregivers) [9,16,20,39] Feelings of shame inhibit sharing experiences 	 Caregivers young age (caregivers & stakeholders) [1,2,4,13,16] Caregiver being employed (stakeholders) [13] Caregiver experiencing perceived strain/need for intervention (caregivers) [9,16] Caregiver receiving inadequate support from social network (caregiver) [9] Internet skills and familiarity among caregivers (caregivers & stakeholders) [26] Desire to learn among caregivers (caregivers & stakeholders) [21,30] 	"Further conversations with these caregivers revealed that they were too overwhelmed to take on anything new at that time. One had just become a caregiver for an additional relative []"Author summary from [22] – Barrier "Sometimes you need to tell your story. But my friends were all in a different situation, they just became parents or they were pregnant. A totally different life situation. Therefore, they had problems talking to me. And for my part, I didn't want to be a burden to them either." Participant quote from [9] - Facilitator

(caregivers) [13,20,32]

•	Lack of experience with eHealth among stakeholders
	(stakeholders) [1]

Domain 5: Process					
Planning	•	Inadequate implementation plans (stakeholders) [1,3]	•	Perceived value of planning intervention financing (stakeholders) [2,13]	"The plans that were made at the beginning of the implementation [25] were followed. Nevertheless, these were in many cases insufficient, and in several municipalities, implementation plans are still being made for the future." Author summary from [3] – Barrier
					"importance of [] financing of caregiving support." Author summary from [2] - Facilitator
Engaging	•	Lack of internal ownership for intervention and implementation (stakeholders) [3]	•	Internal ownership for intervention and implementation (stakeholders) [1,3] Variety of advertising efforts to providers and users (caregivers & stakeholders) [3,17,26]	"The 2 Partner in Balance municipalities that did not consider the implementation to be successful seemed to see the implementation as more of an external project, where the municipality's role was more to facilitate than execute." Author summary from [3] – Barrier "What these 3 Partner in Balance municipalities had in common was that they considered the implementation of the intervention to be a success. These municipalities appeared to have a sense of internal responsibility to facilitate the implementation of Partner in Balance and devise creative solutions." Author summary from [3] - Facilitator
a. Opinion Leaders		no data		no data	
b. Formally Appointed Internal Implementation Leaders	•	Lack of engagement from organizational leaders (stakeholders) [3]		no data	"I introduced this. My supervisor, yes, but I work in my department alone We have not really discussed it with anyone else. So, my supervisor is not actively

				pushing this now either." Participant quote from [3] - Barrier
c.	Champions	Lack of champions/facilitator (stakeholders) [1]	no data	"It's not like it's ready-made. It's still about people, you have to remember that, you have to facilitate that, you have to motivate that. If you don't do thateverything depends on it, especially in this kind of work. If you think: Yes, nowI have thought it up nicely and it will come naturallythat will not work." Participant quote from [1] - Barrier
d.	External Change Agents	no data	• Cooperation with external organizations (stakeholders) [1,3]	"For Partner in Balance, the external cooperation with local health care organizations was an essential part of recruiting the platform's coaches, as they needed to have experience with both dementia and care." Author summary from [1] - Facilitator
e.	Key Stakeholders	 Lack of practical training (stakeholders) [3] Low engagement of providers (stakeholders) [1,3] 	 High staff familiarity with intervention (stakeholders) [1] Maintenance of trained staff (stakeholders) [13] Early engagement in decision-making (stakeholders) [30] 	"[Municipalities] would have preferred a more practical, hands-on training in smaller groups, as the training was too theory-focused, and more implementation tips would have been welcome." Author summary from [3] – Barrier "One coach stated: "The program could easily be implemented as regular care if all staff members or a constant group of staff members were trained as coaches."" Participant quote from [13] - Facilitator

Abbreviations: CFIR; Consolidated Framework for Implementation Research

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