Implementation of a novel rehabilitation model of care across Alberta, Canada: a focused ethnography

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ABSTRACT

Background In 2017, a provincial health-system released a Rehabilitation Model of Care (RMoC) to promote patient-centred care, provincial standardisation and data-driven innovation. Eighteen early-adopter community-rehabilitation teams implemented the RMoC using a 1.5-year-long Innovation Learning Collaborative (in-person learning sessions; balanced scorecards). More research is required on developing, implementing and evaluating models of care. We aimed to explore experiences of early-adopter providers and provincial consultants involved in the community-rehabilitation RMoC implementation in Alberta, Canada.

Methods Using focused ethnography, we used focus groups (or interviews for feasibility/confidentiality) and aggregate, site-level data analysis of RMoC standardised metrics. Purposive sampling ensured representation across geography, service types and patient populations. Team-specific focus groups were onsite and led by a researcher-moderator and cofacilitator. A semistructured question guide promoted discussions on interesting/challenging occurrences; perceptions of RMoC impact and perceptions of successful implementation. Focus groups and interviews were audio-recorded and transcribed alongside field notes. Data collection and analysis were concurrent to saturation. Transcripts coding involves collapsing similar ideas into themes, with intertheme relationships identified. Rigour tactics included negative case analysis, thick description and audit trail.

Results We completed 11 focus groups and seven interviews (03/2018 to 01/2019) (n=49). Participants were 89.6% women, mostly Canadian trained and represented diverse rehabilitation professions. The implementation experience involved navigating emotions, operating among dynamics and integrating the RMoC details. Confident, satisfied early-adopter teams demonstrated traits including strong coping strategies; management support and being opportunistic and candid about failure. Teams faced common challenges (eg, emotions of change; delayed data access and lack of efficient, memorable communication across team and site). Implementation success targeted patient, team and system levels.

Conclusions We recommend training priorities for future teams including evaluation training for novice teams; timelines for stepwise implementation; on-site, in-person time with a facilitator and full-team present and prolonged facilitated introductions between similar teams for long-term mentorship.

BACKGROUND

Rehabilitation aims for ‘enhancing function for meaningful living’.1 In April 2017, a redesigned Rehabilitation Model of Care (RMoC) was introduced in a provincial health system to cultivate a patient-focused, innovative, equitable and data-driven service model.1-6 This coincides with the refrain ‘no decision about me without me’7,8 that undergirds many global, national and provincial movements to better engage patients in their health, healthcare and research.8-12

Models of care and their implementation

Understanding the implementation of policy innovations, like the RMoC, is critical to understanding change within complex health systems. Such understanding will build new knowledge for health systems, particularly on why models of care work in a particular jurisdiction and factors that influence model outcomes between jurisdictions.13 14 There is a call for more research on developing, implementing and evaluating models of care.15

A model of care is an ‘... evidence-informed policy or framework that outlines the optimal manner in which condition-specific care should be made available and delivered to consumers at a system level’.15 It is not a clinical guideline but a vehicle for moving best evidence into practice using appropriate teams, timing and resources.15 16 In Australia, Canada, the USA and the UK, models of care are increasingly developed for diverse settings including chronic conditions,17 18 e-health strategies,19 20 mental health20 21 and musculoskeletal issues.13 22 23

Research on perceived barriers and facilitators to implementing new models of care found that sustainable change is challenging.15 22-25 These facilitators included organisational cultures and stability; champions for change; individual acceptance; supportive leadership; distribution of decision-making roles and systematic follow-up and measurement.17 21 24 25 Recognised barriers included
communication barriers; intraorganisational competition (eg, lack of formalised collaboration); organisational structures; lack of buy-in; limited financial resources; overwhelmed or unsupported staff.\textsuperscript{17} 18 20 21 24 This research spans clinical settings including musculoskeletal conditions but does not address factors unique to community rehabilitation (eg, predominantly allied-health providers, outpatient settings).\textsuperscript{15} 17-25

Implementation science theory supports understandings around why models of care work in a particular jurisdiction and clarifying factors to consider when spreading interventions across jurisdictions.\textsuperscript{13} 14 The Consolidated Framework for Implementation Research (CFIR) represents a framework and ‘overarching typology’ to understand implementation developed from combining common constructs from published theories.\textsuperscript{14} 26 The CFIR describes 5 domains, with a total of 37 constructs across the domains, that influence implementation effectiveness in multiple, complex ways individually, interactionally and collectively.\textsuperscript{26} The five domains relate to characteristics of the intervention (eg, ‘core components’ vs ‘adaptable periphery’ of the intervention; the intervention’s complexity, costs, course and evidential base); the outer setting (eg, network with external organisations, peer pressure, patient needs and resources and external policies or incentives); the inner setting (eg, internal structural characteristics, communication, climate and culture); characteristics of individuals (eg, self-efficacy, knowledge/attitudes/beliefs, personal attributes; individual state of change) and the implementation process (eg, the activities of planning, engaging, executing and reflecting and evaluating).\textsuperscript{26} This framework supports strategic assessments of potential barriers and facilitators to the implementation of a novel innovation, including a model of care.\textsuperscript{13}

Organisational context
The RMoC has five competency domains: access and wayfinding; service options, client and community outcomes, transitions and professional practice (online supplemental appendix 1).\textsuperscript{4} The RMoC mandates standardised tools to capture collaborative goal-setting and patient-reported outcomes, including quality of life (EQ-5D-5L) and care experience (WatLX).\textsuperscript{27} 28 This will inform implementation, policy development, quality improvement, accountability, comparisons and research.

RMoC adoption began in May 2017: 18 community rehabilitation teams volunteered as early adopters. Early adopters then implemented the RMoC while being stewarded through the 1.5-year Innovation Learning Collaborative change-management process. These early-adopter teams represented multidisciplinary teams providing outpatient rehabilitation care, which was either general or specialised (eg, a balance programme, postoperative hip and knee rehabilitation and neurological rehabilitation). The represented disciplines included physiotherapy, occupational therapy, rehabilitation nursing and speech and language pathology. Based on the Institute for Healthcare Improvement’s Collaborative Model, the Innovation Learning Collaboratives gave structure and process to engage teams in change management.\textsuperscript{29-34} The Innovation-Learning-Collaborative process involved several strategies including independent study, team-based learning, face-to-face learning sessions and team-driven balanced scorecards for progress measurement.\textsuperscript{29}

Separate from the RMoC, the provincial health system broadly introduced HealthChange Methodology.\textsuperscript{35} HealthChange focuses on educating providers to help patients make behaviour changes for health promotion.\textsuperscript{36} HealthChange training discusses person-centred approaches to patient engagement that may influence shared decision-making or collaborative goal-setting.\textsuperscript{36} The 18 early-adopter teams implementing the RMoC had priority to participate in the training.

Gaps in understanding
The literature around the development, implementation and evaluation of models of care is quite nascent, particularly in community rehabilitation. We aimed to contribute clarity on the implementation of novel intervention, particularly a model of care. We specifically aimed to clarify provider and professional experiences of implementation with the early adoption of the RMoC in Alberta, with a theory-informed analysis guided by the CFIR. This study is part of a broader research programme; other manuscripts described patient and provider perspectives on shared decision-making before RMoC implementation.\textsuperscript{37}

METHODS
We used focused ethnography in this research programme.\textsuperscript{38} Ethnography involves making cultural inferences from peoples’ communications, actions and artefacts.\textsuperscript{39} The culture of interest included patients and professionals composing diverse community rehabilitation sites across Alberta. Focused ethnography uniquely focuses on specific problems and contexts; on discrete social phenomena; on a single researcher’s conceptual orientation; on small samples; on limited to no participant observation and on academic and healthcare settings.\textsuperscript{40} 41

Study sites or teams included those involved in enacting, directing or supporting the early adoption of the new RMoC between April 2017 and June 2018. Purposeful sampling ensured diversity, particularly in patient populations and geographically, while accommodating feasibility considerations. Specific strategies included ensuring representation from urban and rural regions; including diverse array of early-adopter programme foci (ie, group-based and 1:1 care strategies; content specific vs general outpatient rehabilitation) and ensuring representation across the five zones of the health system organisation. As there were 18 early-adopter teams involved in RMoC adoption, all were invited and teams were followed up with to ensure maximum variation sampling.
Inclusion criteria for participants, whether providers, leadership or consultants, were either recognised membership on an early-adopter community rehabilitation team or a professional role facilitating RMoC implementation. Rehabilitation providers must have held a professional license, as appropriate, during implementation. No exclusion criteria were set.

Site leadership informed provider recruitment strategies. Tactics included email introductions followed by study presentations (by webinar, in-person or one-on-one) reviewing aims, methods and implications. After discussions with the previously unknown researcher, informed consent was procured.

Data collection
We used focus group methodology. Each focus group was limited to members of that team. Participants were offered the alternative of individual interview participation, if preferred for confidentiality or scheduling.

We examined aggregate standardised-metric data (ie, EQ-5D-5L and WatLX) collected by early-adopter teams during the Innovation-Learning-Collaborative period (July 2017 to November 2018) and located on the provincial health-system’s cloud-based data-visualisation programme.

Site managers worked with staff to organise focus group timing and location on-site in private rooms. The provincial-consultant focus group used video discussions due to geography. Prior to the focus group, all participants received the written consent form, focus group guidelines and outline document, study backgrounder and a confidentiality agreement. The experienced, PhD-trained lead researcher (KPM) moderated all focus groups; a second research personnel acted as cofacilitator to log non-verbal behaviours and group dynamics in field notes. Due to geography and cost, the cofacilitator varied and included either a hired clerical staff, therapy assistant, patient-researcher or research trainee.

Focus groups were guided by a semistructured question guide. Discussion centred on participants’ experience of RMoC implementation; interesting or challenging experiences during implementation; perceptions of the RMoC in practice and criteria for defining successful RMoC adoption. The question guide was informed in form and content by ethnography and implementation science literature (particularly the CFIR described above), respectively.

Prior to data collection, previous Phase 1 provider-participants gave feedback on the question guide. The moderator convened the focus group, beginning with an ice-breaker and introduction. The moderator used verbal and non-verbal approaches (eg, calling on quieter participants, using head nodding and eye contact) to encourage participation. All focus groups and interviews were audio-recorded and confidentially transcribed.

Both the process of collection and the outcomes in the three standardised-metrics provided important insight into the issues related to success and sustainability of RMoC adoption. Primary data collection was novel for teams. We gained secondary access to the aggregate data on the provincial health-system’s data-visualisation platform specifically on the three standardised metrics (EQ-5D-5L, WatLX and Collaborative Goal Setting) for the period of the Early-Adopters’ Innovation-Learning-Collaborative (April 2017 and November 2018).

Data analysis
Data collection and analysis of field notes, transcripts and any participant notes were concurrent until saturation.

Analysis began by uploading cleaned transcripts into NVivo, with coding of transcripts for words and phrases related to implementation, including experiences, successes and challenges. The research-trainee cofacilitator examined three coded transcripts for appropriateness and no missing codes. Similar ideas were grouped together to form themes, with tentative relationships among identified themes. This qualitatively derived description of the implementation experience of early-adopter teams and leadership was contextualised by descriptive analyses of site-level data including standardised RMoC metrics. An audit trail of decisions was kept to ensure rigour. The CFIR framework did provide an initial framework for qualitative data analysis but was deviated from so that the qualitative data content itself drove analysis.

Data analysis also considered the unique attributes of focus group research, particularly participant interaction. Coding was informed by the nuances of focus group interactions, including an examination of the sequence of responses to determine the process of evolving consensus and debate; an appreciation of individual contributions along the group discussion and an exploration of the impact made by types of questions (eg, general vs specific; particular topics).

We used the provincial health-system’s data visualisation platform to analyse early-adopters’ aggregate data and SPSS 25 for the provider sociodemographic data collected in focus groups. For each site, we analysed the quantitative data to consider the collection process and outcomes related to the standardised metrics: EQ-5D-5L, WatLX, and collaborative-goal-setting and site characteristics (eg, disciplines, number of patients per month). We statistically described these data using means, SD and ranges for continuous variables (eg, number of patients) and proportions for categorical data (eg, types of disciplines). We used a monthly time series plot for the number of metrics captured for each standardised metric over the April 2017 to November 2018 period (three variables on one plot, each with a different line). The consolidated criteria for reporting qualitative research (COREQ) were used (online supplemental appendix 1).

Patient
The research question and methods were informed by discussions of the research team, key knowledge users and the two patient advisors who were trained in

patient-directed research methodology. The patient advisors took part in all team meetings and also had separate meetings with the lead researcher to discuss study design, implementation, analysis and dissemination. Patient perspectives on the impact of the RMoC were examined in complementary research studies to the study described herein.

RESULTS
Participant information
Ten of the 18 early-adopter teams participated in this study as well as a provincial team of community rehabilitation senior practice consultants. Forty-seven professionals participated in focus groups or interviews (30–120-min duration). The researchers conducted 11 team-specific focus groups (n=2–7 participants per group) and seven one-on-one interviews. Save the provincial consultant-team, all focus groups were in-person. Interviews were by phone (2) or in-person (5). Saturation was achieved.

Five teams represented metropolitan-urban settings, one team represented regional-urban settings and four represented rural settings. While the Innovation-Learning-Collaborative process began in May 2017, teams varied on when they initiated the novel, RMoC-required data collection processes. From the available data from eight teams, three teams began collecting the standardised metrics data in July 2017, two in August 2017, one in September 2017, one in October 2017 and one in November 2017. RMoC data collection initiation was not associated with geographic setting or survey delivery format (ie, paper vs iPad vs both). We found that mean completion rates were 87.25% at sites using paper-copies only and 95% at sites using both iPad and paper copies.

The mean (SD) age of the professional-participants was 41.4 (11.6) years, with the range being 45 years (youngest age 26 years and oldest 71 years). Most professionals were women (89.6%), Caucasian (78.7%), trained in Canada (85.1%) and worked in a hospital-based outpatient setting (61.7%). They had a mean (SD) of 16.2 (10.3) years of professional experience. Participants represented all three geographical areas: metropolitan-urban sites (53.3%), regional-urban sites (17.0%) and rural sites (29.7%). Diverse disciplines were represented including occupational therapy (25.5%), physiotherapy (23.4%), speech language pathology (10.6%), therapy assistants (21.3%), rehabilitation nursing (4.3%), respiratory therapy (4.3%) and social work (4.3%). The populations served by provider-participants included patients with older age (27.7%), neurological issues (25.5%), chronic health issues (17.0%), homecare needs (4.3%) and musculoskeletal issues (4.3%). About 66% of providers describe the primary service option under the early-adopter team as a group-based programme.

We examined the WatLX completion rates and actual measures at the available eight sites. Across July 2017 to November 2018, on average 85% of patients responded entirely agree or mostly agree on the 10 individual WatLX items. Individual items that had a higher response rate for not-applicable related to inclusion of chosen family and friends (32%), control of physical pain (15%) and no delay on information availability (13%).

We examined the EQ-5D-5L completion rates and actual measures at nine available sites between July 2017 and November 2018. Sites collected 1376 intake EQ-5D-5L surveys and 753 end-of-episode-of-care EQ-5D-5L surveys. In July 2017, the ratio of intake EQ-5D-5L surveys completed to end-of-care EQ-5D-5L surveys was 86.61%–13.39%. In November 2018, this ratio was 64.36% intake and 36.54% end-of-care surveys. Across the nine sites, the mean change in EQ-5D-5L Index Score was 0.11 in July 2017 and 0.09 in November 2018. The largest monthly mean change in EQ-5D-5L Index Score was 0.14 and the lowest monthly mean change was 0.04: these are all above the minimally important difference of 0.037. The mean number of patients who indicated that they had no problem across the five EQ-5D-5L dimensions was 31.80% at intake and 41.27% at the end of care.

PROFESSIONALS’ EXPERIENCE OF RMOC IMPLEMENTATION
The experience RMoC implementation called on teams to navigate emotions, operate among myriad dynamics and integrate novel RMoC processes (figure 1). Professionals described implementation success as multifaceted, relating to patient metrics, team processes and system efficiency (figure 2).

Navigate emotions
The emotional fallout of RMoC implementation was prominent. Emotions and connections were intertwined for providers. Many providers spoke of developing a common, shared language during implementation, which was facilitated through training (eg, HealthChange) and transdisciplinary approaches. All teams experienced feelings of frustration, anxiety and being overwhelmed, especially at the start. Failure, or when things did not go as planned, often caused stress, challenges and other negative emotions at the individual level and team level. Teams varied in their approach to failure. Some teams were open and candid about failure and took an opportunistic ‘fail fast, fail forward’ approach. This mitigated stress and pre-empted failure-related delays. Other teams were hesitant to change plans with unexpected events. Table 1 contains exemplar quotes.

‘[HealthChange] gave us the language I think right. We were able to have easier conversations around our clients because HealthChange gave us the lingo, the terminology so that we were all on the same page.’ (Focus Group 4 Participant)

‘So that first session was very frustrating admittedly. It was very confusing. It was hard to understand what the ultimate goal was and what we were expected to achieve at the session. So when we got to the end of the session and … they’re looking to me essentially to make some decisions as
to what we’re doing, and I’m like ‘I still really don’t understand the question.’” (Focus Group 8 Participant)

Operating among dynamics

Early-adopter teams faced challenges and made adaptations for microlevel, mesolevel and macrolevel dynamics. At the microlevel, patient–provider interactions were routed towards emphasis on patient readiness and understanding for fully informed participation. This was especially prominent during screening and intake. At the mesolevel, interactions among team members influenced implementation. Management support determined the relative ease of implementation. Change in team membership was a common challenge. At the macrolevel, the use and availability of organisational resources was critical to professionals. Perceived inefficiencies in resource use, particularly the four in-person Learning Sessions (as part of the Innovation-Learning-Collaborative), concerned professionals, as did any unavailability or inconsistency in resources including time, physical and human resources. Table 2 provides transcript quotes.

‘Yeah, lots of mat leaves and coverages and people leaving early and so we were in scramble mode for the last year just trying to get through our day in peace.’ (Focus Group 4 Participant)

‘P1: We’ve always struggled with that and people have great ideas about how to help us with our problems. But that’s because they have all these resources and funding …

P2: I think like the community support right. A lot of those programs are run off site at gyms and there’s collaborative partnerships, which we don’t have.’ (Focus Group 1 Participants)

Integrating the model

Three aspects related to the integration of RMoC polices and processes. First, some teams questioned introducing data collection with standardised and non-standardised metrics. It was difficult to see the data’s value. Some metrics were problematic due to ceiling effects or inapplicability to unique populations. Prolonged delays in access also limited data utility.
Second, RMoC implementation was accompanied by either novel service programming or an opportunity to highlight provincially unique, long-standing site services. Some teams inappropriately conflated the RMoC and service programming. These struggles and misunderstandings of the RMoC led to lower prioritisation to implementation and integration activities.

Third, RMoC integration was tied to information availability. Some team members avoided extraneous information in their daily tasks, which sometimes included RMoC-related information. Team leads had the greatest connection to the RMoC, in contrast to the team. Training and learning opportunities were most memorable and impactful when in-person, practice-relevant

### Table 1  Professional quotes on navigating emotions in the RMoC implementation experience

<table>
<thead>
<tr>
<th>Navigating emotions</th>
<th>Finding common language</th>
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<tr>
<td>P1: Made a more conscious effort of looking at how we were providing our services and just being more effective and more client-centred.</td>
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<tr>
<td>P2: It just brought a different language to it.</td>
<td>(Focus Group 4 Participant)</td>
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<th>Feelings</th>
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<tr>
<td>Frustration</td>
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<td>It wasn’t a huge part of the day, but I think just the frustration of they sent it to somebody and they were like ‘oh no that’s not that’ or ‘no we need the postal code on that now’ or ‘it’s supposed to go here.’ [sic] … But we know we sent 45 [in], how come you only have 11?’</td>
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<th>AnxIety</th>
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<td>P5: It’s a huge change. So, the level of anxiety on everyone is quite high, including myself. And January was probably a pinnacle of whatever can happen, can happen: from clients not knowing where to go, to computer failure…</td>
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<td>P1: We lost our admin staff.</td>
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<td>P5:… So there was a lot of flipping around which can cause so much anxiety and a lot of confusion.’</td>
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<tr>
<th>Overwhelmed/confused</th>
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<td>‘I think it was just kind of mind-blowing at first. We didn’t really realize what it was and we went there [to the Learning Session] and it was like ‘wow this is what we’re doing and how do we put this all together.’ So, it was a lot of information all at once, but inspiring to be able to take that back and to work on it within our small team.’</td>
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<th>Approach to failures</th>
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<td>When candid</td>
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<td>‘One thing for the teams that are starting out being able to continue to look at it and re-evaluate things and not being afraid of changing and failure trying things out and just keep just keep trying.’</td>
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<th>Fear of changing plan</th>
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<td>‘Another team, they really felt like they had to do one of the service options, which is a component of the Model of Care. And they just got it in their head and it didn’t seem to matter how I tried to maneuver around [that] you have other options we can explore, other things here’, they just had it in their head. And I never was able to really move them from that initial thing that they thought they had to do. They had a lot of learnings, but I think their experience could have been different if I’d been able to move that stereotype that they held onto for so long.’</td>
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### Table 2  Professional quotes on operating among dynamics in the RMoC implementation experience

#### Operating among dynamics

<table>
<thead>
<tr>
<th>Aspect</th>
<th>Quote</th>
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| **The patients**              | *Readiness*  
'It’s really focused more in the last little while. We revamped it since attending the HealthChange methodology group session. We changed the focus to be a lot more focused on readiness. Having the client be aware of what the treatment might involve, what the options are with treatment. So they just come a little bit more informed to make an informed decision.' (Focus Group 4 Participant)  
*Screening and intake*  
'The process of getting to [this program] is actually quite a long journey. Longer than the actual program itself. So we tried to set up a metric to see if we could reduce that, and try to evaluate that. The end result is that we have in some sort established a more streamline approach to assessing a client so that they have an idea of whether they’re able to make it into class or if their accepted to class or not be accepted to class. And then help them way-find if they’re not.' (Focus Group 3 Participant)  
*Consent*  
'We want them to be informed and to be ready for the coming to treatment because it’s a really large commitment that we’re asking them to do so we want them to feel like that they’re a part of what we’re offering and that they know what they’re getting into.' (Focus Group 4 Participant) |
| **The team**                  | *Management*  
'The challenges that I can think of were around the trans-disciplinary model and the challenges around having constant FTE available. So we struggled with [discipline A] and [discipline B] for a number of months because management was saying they were supportive of it, but yet maybe not so … when you’re withdrawing these disciplines for periods of day [sic] it really affects the structure and the process that we were trying to build.' (Focus Group 10 Participant)  
*Team changes*  
'One of the things that we discussed a lot was team dissemination and how to get everybody else on board with kind of what we were doing. And we decided that because of all the shortages and the excess stress that was on our team at the moment, we were kind of [like] we’ll just keep this to ourselves until we figure out how it works. We had a few tech stumbling blocks and some process things that we were trying to work through. And we were just like maybe we’re not going to just be like ‘here guys have this thing even though it’s not done.’ I think that would have just caused mass pandemonium.' (Focus Group 6 Participant)  
*Other colleagues*  
'It [was] really, really difficult to come back from the session and explain it to anybody because really I found it very difficult. … The model is very large and the amount of stuff that we could put into place is huge. And understanding how much of that we were expected to be incorporating into our site that wasn’t clear and like there are so many different aspects and so are we supposed to be doing all of them, are we only supposed to be doing a little bit of it, do we only apply it to the [specific program] group?' (Focus Group 8 Participant) |
| **The resources**             | *Perceived efficiency*  
'Moderator: How did you compare the Telehealth Learning Session to the in-person ones?  
P1: Much better use of time and money  
P2: And it was nice we were all there for that one  
P3: Yeah everybody was in the same room, so then we could all have the same discussion afterwards  
P2: And hear the same thing.' (Focus Group 9 Participants)  
*Learning sessions*  
'(At the Learning Session), I personally think with doing it on our own time, how it would have probably worked better on a smaller scale is to have goals. … It was really too much fluff, too much things. But if you had set it up and said okay I, we’re starting in April so by May/June we need you to have this metric done. You’re like okay and if you need this metric done in June, you have a timeline that you work back to April. … If it was broken down a bit more like that, practical like that, I think it would have been better.' (Focus Group 2 Participant)  
*Available resources*  
'So two people. Because we’re such a small department, we really couldn’t have more participants attend these offsite learning collaboratives and kind of participate. … I think originally we tried to have [another discipline] involvement but that didn’t really work out very well. Again caseloads.' (Focus Group 1 Participant) |

RMoC, Rehabilitation Model of Care.
In-person interactions that were perceived as inefficient or irrelevant were both unmemorable for content and associated with negative attributes. Table 3 contains quotes supporting these features.

Table 3  Professional quotes on integrating the model during RMoC implementation experience

<table>
<thead>
<tr>
<th>Integrating the model</th>
<th>Difficult to see value</th>
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<tbody>
<tr>
<td>The metrics</td>
<td>‘I found it hard to understand how the outcome measures of the measurement tools that we needed to use applied to the Model of Care. … [I was] excited that we were kind of there and what more we were going to learn, but didn’t quite get the connection of how the two roles blended with the Model of Care.’ (Focus Group 7 Participant)</td>
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<td></td>
<td>Some metrics problematic</td>
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<td>‘I think the issue with some of the mandatory indicators is there’s not a lot of play in it. So if you’re already scoring a nine or a ten from day one, where is the challenge? And that’s what I see as a scorecard is like as team we can then use that to challenge ourselves, push ourselves even further into client-centred-ness? But we’re stuck to those and I don’t want to add in another outcome measure right onto our clients’ back.’ (Focus Group 10 Participant)</td>
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<td>Access to data</td>
<td>‘There was just a lot of trouble getting information back about it, so it was really hard for staff and unit perspective because we’d have loved to have given it back to staff. But it took probably like eight nine ten months to get any bulk number back in order to support staff by giving them that feedback and so that was really rough.’ (Focus Group 5 Participant)</td>
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<th>Model vs programme</th>
<th>Novelty</th>
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<td>‘If they didn’t have a strong understanding of the Model it kind of came out as well in those expressions of interest because they weren’t necessarily linked really strongly with the Model. But we were also learning what the Model was as well. … So I felt quite a long time for me to get from starting the position and the teams coming on to really feeling I’m fairly solid in what the Model meant, so that was challenging.’ (Focus Group 11 Participant)</td>
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<td>One or other</td>
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<td>‘I still to this day we haven’t had any formal orientation or information on the rehab Model of Care. All of a sudden this new one was shared with us by the way it flashed up on the screen at the last learning session this is what we’re doing now and I remember asking okay so can you provide us with documents like you did for the original community rehab model of care so we can understand what’s different. … Don’t tell us to roll something out if you’re not providing us with the information. You may theoretically understand it but how does it work at a practical level?’ (Focus Group 7 Participant)</td>
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<td>Priority</td>
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<td>‘I think probably the most challenging was just the paperwork part because like we scaled down what we were giving them initially ’cause we do need data about just kind of where they’re coming from, just health issue stuff and then to add on all the other stuff because we already do an outcome measure pre and post.’ (Focus Group 6 Participant)</td>
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<th>Available information</th>
<th>Avoid extraneous info</th>
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<td></td>
<td>‘We do not clutter our minds with things that do not concern us.’ (Focus Group 9 Participant)</td>
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<tr>
<td></td>
<td>Team lead access</td>
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<td>‘It feels like there’s been certain players that have contributed to ILC. So certain members of the team. But it hasn’t been dispersed amongst all members of the team, so I know certain people we will attend meetings and that kind of thing but doesn’t necessarily involve the whole team.’ (Focus Group 4 Participant)</td>
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<td></td>
<td>In-person memorable</td>
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<td>‘And for me I really like the face to face way better than the Skype and doing all these learning sessions on webinar. Again when your one or two people in a room and you’re looking at this outcome measure that you’ve never seen and they’re using all their analytic, and yeah you’re like what? That was a little bit overwhelming. I feel like a face to face and working through that in a group would have been better, but that’s just my learning style.’ (Focus Group 1 Participant)</td>
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RMoC, Rehabilitation Model of Care.

and resource-efficient. In-person interactions that were perceived as inefficient or irrelevant were both unmemorable for content and associated with negative attributes. Table 3 contains quotes supporting these features.

‘The model of care was not first and foremost in my mind, ever. I’m sorry to say… But basically when you’re on a floor working with clients, you’re trying to get your day to day done. Clients need to be seen. They need to be heard. Sometimes I think I have a second mom role.’ (Focus Group 2 Participant)

‘It seems like we retained the in-person stuff a lot better. … The practical side of it… It was much more useful, much more effective so.’ (Focus Group 3 Participant)
RMoC implementation towards multifaceted success

Professional participants described successful implementation as multifaceted, not monolithic. Success fell across microlevels, mesolevels and macrolevels. Success was measured in improvements in patient experience and outcomes, as measured by the standardised RMoC metrics. Team processes tracked success, particularly whether the team was cohesive, collaborative and resilient through the inevitable challenges of implementation. RMoC success was tied to whether implementation introduced efficiencies for the health system.

‘I don’t think metrics is the only way to measure success. … I think there also needs to be discussion about how we felt about the successes we had. To take on all of those changes and come out like a year later.’ (Focus Group 4 Participant)

‘I think success is not just getting to a spot and being happy with it. It’s constantly re-looking at things and making those changes to make it even better and better all the time.’ (Interview 2 Participant)

DISCUSSION

Practical implications

Understanding the professional-participants’ experience as early adopters of the RMoC clarifies commonalities. First, the features and framework of the implementation experience house a list of common challenges (online supplemental appendix 2). Clarity on those challenges can help prepare future teams, and the leadership supporting them, on what to expect during RMoC implementation. These challenges included:

- difficulty in handling and navigating the initial emotions of large-scale change, which stressed team members and affected motivation,
- lack of timely data access,
- misunderstanding the relevance of RMoC metrics,
- lack of efficient, memorable updating and training strategies for teams,
- lack of clarity on the RMoC aim, vision and key components,
- lack of sufficient time and coverage for clinical responsibilities to complete implementation tasks,
- perceptions of uniqueness impeding collaborative and mentorship opportunities.

Some early-adopter teams had a fraught implementation experience. Other teams described an experience marked with confidence and satisfaction. These confident teams had four features in common. They had coping strategies that pre-empted delays on management or team-member changes (eg, strong communication, human resources to supplant gaps as new members came up to speed). They used the RMoC and HealthChange strategies to build a common language that facilitated communication among the team, with external colleagues, and with patients. They consistently addressed failure with candour and opportunism. They felt tangible management support for implementation tasks and less top-down decision-making.

We developed recommendations for RMoC spread (online supplemental appendix 3). These recommendations highlight educational priorities (eg, evaluation training); inevitable experiences to prepare for (eg, being overwhelmed and anxiety); examples and strategies (eg, a timeline to adopt the RMoC in sequential parts) and the optimal format for education (eg, efficient, in-person sessions with the full team present).

CONTEXTUALISING FINDINGS

These findings corroborate many empirically recognised facilitators and barriers to the implementation success of models of care. Facilitators-wise, we saw that individual acceptance, supportive leadership, distribution of decision-making roles and the power of systematic measurement and sustainability were critical.17 21 24 25 Barriers-wise, limited resources, lack of buy-in, communication and overwhelmed or unsupported staff were present in Alberta as in other jurisdictions that struggled with model-of-care implementation.17 18 20 21 24 We move beyond this extent literature in several ways.

First, previous research emphasised organisational structures that work to impede or facilitate model-of-care implementation.17 18 20 21 24 25 Our findings focus less on organisational or policy factors and rather emphasise the importance of the interpersonal factors, particularly emotional and communicative factors. In the language of the CFIR,36 the intervention and individuals involved with the intervention were more determinative of implementation, while the inner and outer settings as well as the process of implementation were less prominent.

Individual connection to, and clarity about, the RMoC was important. The navigation of emotions was a conspicuous process in the implementation experience. Teams that struggled in implementation generally got ‘stuck’ and could not steer the emotional fallout of large-scale change, novel transdisciplinary approaches and dynamic team membership. Lack of connection meant lack of motivation and successful RMoC implementation was distant. Teams could neither get behind increased data collection nor data-driven innovation.

The RMoC—the intervention itself—had adaptable and requisite components.26 The adaptable components sometimes exaggerated confusion around RMoC vision and aims. Early adopters could select the patient population and type of service programming on which to apply the RMoC components. This selection was informed by local needs, interests and available resources. Where teams introduced novel service programming and were somewhat unsure, the new programme (eg, a new group programme for balance) and the RMoC became conflated. In implementing models of care, the challenges consequent to the adaptable and requisite interventional components must be made explicit so that they can be addressed.
Second, this study addresses the call to understand why models of care work in a particular jurisdiction and the factors that influence outcomes when transferring between jurisdictions. Through the common challenges and the characteristics of confident teams, we see jurisdictional lynchpins. The size, dynamism, resources and attitudes of all rehabilitation staff at a particular site informed the subset. Early-adopter team success in realising the RMoC facets and aims. Rural teams struggled more often with fewer resources, smaller teams and less sustained reprieve from clinical duties to spend the time required to understand the RMoC and implement its component parts.

Third, this study confirms the importance of sustainability considerations in model-of-care implementation. The training associated with the RMoC (along with Health-Change) likely offers gains in shared decision-making and functional goal-setting quality and frequency. These gains can be lost. Challenges to sustainability include competing responsibilities, lack of clarity or connection to the RMoC vision, less traditional clinical settings and team dynamics. Teams adopting the new models of care must consider team and patient strategies for sustainability. For example, after training courses are complete, teams must plan the logistics of developing a community of practice that carries the conversation forward around the learnings.

LIMITATIONS

We recognise our study limitations. Pre-existing team dynamics carried into the focus group and may have affected candour and communication styles. No managers participated in focus groups, but team leads were present. Not all focus groups occurred at the same time of day or same time since implementation. The latter may lead to different levels of recall or acceptance. The former seemed influential as afternoon focus-group participants were quieter and less-forthcoming. Some interviews lacked the elaboration of focus groups. Ethically and feasibly, interview opportunities were necessary. Given there was little dissent and infrequent disagreement among focus group participants, it suggested general consensus.

CONCLUSION

This study has organisational relevance to health systems aiming to use models of care as frameworks that can advance patient-centred care in allied-health-dominant domains. We clarify the professional experience of early adopters of the RMoC, which provides a foundational information resource to expose seminal differences between jurisdictional success or failure in implementation. Possible future research directions include (a) rigorous development, testing and implementation of the training strategies identified and (b) evaluating the RMoC itself using research designs that acknowledge and measure fidelity.
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