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Interdependencies in Social Prescribing at the Health-Social Care Nexus

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Abstract

Purpose:

Holistic and person-centred care models such as social prescribing are gaining traction as transformative paradigms that address contextual determinants of health. Unlike rule-based coordination, social prescribing functions through relational interdependence, requiring dynamic collaboration and shared goals across fragmented service ecosystems. This study investigates how relational, institutional and infrastructural interdependencies shape organisational frontline capacity to deliver social prescribing in community settings.

Methodology:

Adopting a sequential explanatory mixed-methods design, participatory photovoice integrated with in-depth interviews and focus group discussions were conducted with well-being co-ordinators embedded in Singapore's public healthcare system. These well-being co-ordinators are organizational frontlines – defined as the points of interaction, interface, and time where institutions engage patients through social prescribing in co-creating care.

Findings:

Our findings identify how different types of interdependence influence anticipatory and adaptive capacities across relational, institutional, and infrastructural domains. We propose a practical analytical matrix that maps organizational frontline configuration (interaction, interface, time) to capacity domains (adaptive and anticipatory) and types of interdependencies (relational, institutional, infrastructural). This framework illustrates the operational implications for care continuity and system responsiveness.

Research limitations/implications:

The findings are based on a national and cultural context and may not generalize across systems. Future research could apply the framework in comparative or longitudinal studies. Irrespective, social prescribing programmes must invest in building relational infrastructure and institutional alignment at the organisational frontline. Performance measures should be tailored to accommodate non-linear, person-centred outcomes that emerge through adaptive and anticipatory coordination.

Originality/Value:

This paper contributes to service ecosystem theory and public management by conceptualising the organisational frontline as a dynamic site of interdependence

management. It offers a novel framework to guide practice and policy in embedding social prescribing into complex community ecosystems.

Keywords:

Social prescribing, organizational frontline, adaptive capacity, anticipatory capacity, public healthcare, community-based care, service ecosystem

Paper type:

Empirical research paper

1. Introduction:

Public health and social challenges are growing increasingly complex due to fast-ageing populations, the rise of chronic illnesses, and persistent socioeconomic inequalities. These pressures are driving a shift toward more holistic, person-centred models of care (Borgermans et al., 2017). One such model is social prescribing, a transformative paradigm that addresses the social determinants of health by linking individuals to non-medical, community-based supports (Anderson et al., 2018; Marmot, 2006; Nau et al., 2019; Ostrom et al., 2021; World Health Organization, 2022). Social prescribing has gained significant policy traction worldwide. For example, England's National Health Service now employs over 3,500 "link workers" to bridge primary care with community services, with more than 2.5 million people referred to such programs as of 2023 (National Academy for Social Prescribing, 2023).

In Singapore, social prescribing is incorporated into the national 'Healthier SG' strategy to promote preventive, community-based care (Ministry of Health Singapore, 2022; Singh, 2023; World Health Organization, 2024). Unlike traditional structured care pathways, social prescribing operates through a relational logic rather than rigid protocols, aligning shared goals among diverse actors and tailoring support to individual contexts across fragmented service ecosystems.

Social prescribing differs markedly from rule-bound institutional care. It unfolds in dynamic community environments where frontline healthcare and social care practitioners must continually adapt interventions to each patient's motivations, capabilities, and evolving life contexts. In these settings, service outcomes are shaped by multiple overlapping interdependencies – task, relational, outcome, and knowledge interdependencies, which are rarely visible in standardized performance metrics or linear coordination protocols (Lamothe & Dufour, 2007; Teo et al., 2025; Turner & Baker, 2019). The challenge for organizations is to develop anticipatory and adaptive capacity on the frontline, enabling practitioners to respond to emergent client needs and interdependencies in real time. This requires flexibility and discretion akin to that of "street-level bureaucrats" (Lipsky, 2010), as frontline workers negotiate complex needs that cannot be addressed by one-size-fits-all solutions.

Against this backdrop, our study focuses on the organisational frontline of social prescribing, where institutional systems at the nexus of health and social care engage with citizens to co-create value. We adopt Singh et al.'s concept of the organisational frontline as the interactional, temporal, and interface-based points of contact between institutions and citizens (Singh et al., 2017; Singh & Bridge, 2023). Within this frontline, we examine the role of Well-Being Coordinators (WBCs) in Singapore's public healthcare system – dedicated staff embedded in hospitals who connect discharged patients with community resources, mediating between individual needs and institutional capabilities to sustain continuity of care (World Health Organization, 2024). WBCs serve as boundary-spanning link workers situated at the intersection of healthcare and social support, operating within hospital-to-community transition programs pioneered in Singapore since 2019 (Teo et al., 2025).

Our objective in this paper is to elucidate how the organisational frontline of social prescribing collaborates with recently discharged patients to co-create value in the community setting. In particular, we investigate how WBCs function and intervene to transform care outcomes for patients after hospital discharge. By analysing WBCs' practices on the frontline, we shed light on how such roles facilitate integrated, person-centred care beyond hospital walls. The findings advance theoretical understanding of frontline co-production in public services and offer practical insights for policy and management. In an era of fast ageing societies and health system reforms, this study demonstrates how empowering frontline actors in social prescribing can help bridge healthcare and social services, align with national health policies (e.g. preventive care

under Healthier SG), and ultimately improve continuity of care for vulnerable populations.

Collectively, these insights underscore the policy relevance of investing in relational, community-oriented approaches and guide public managers in implementing and scaling social prescribing for greater public value.

2. Literature Review:

2.1 Service Ecosystems and Interdependence

Service ecosystems theory conceptualises public service delivery as an emergent outcome of resource integration, actor coordination, and institutional alignment across multiple levels (Aal et al., 2016; Akaka & Vargo, 2015; Lusch et al., 2016; Strokosch & Roy, 2024). Instead of viewing value as something delivered unilaterally by institutions, it is co-created through iterative interaction and mutual adjustment between service users, providers, and supporting organisations (Mccoll-Kennedy et al., 2012; Payne et al., 2008; Vargo et al., 2023).

This framing is relevant for social prescribing, which relies on connecting individuals to non-medical, community-based services to address social determinants of health (Beirão et al., 2017; Sandhu et al., 2022). In such distributed and decentralised systems, coordination is achieved through relational, institutional, and infrastructural interdependencies that cross organisational boundaries, rather than through hierarchical command and control (Chen et al., 2021; Sweeney et al., 2015). These interdependencies are often asymmetrical, non-linear, and context-dependent, placing a premium on frontline actors' discretionary capacity to adapt care pathways in real time (Chandler et al., 2019).

We build on this literature by distinguishing three types of interdependence: relational, institutional, and infrastructural. Each form of interdependence constrains or enables frontline responsiveness in different ways. These forms of interdependence are particularly consequential in fragmented care systems, where coordination cannot be taken for granted and must instead be constructed and maintained at the frontline (Raveendran et al., 2020; Tham et al., 2018). We conceptualise knowledge and information flows as an integral part of infrastructural interdependence.

2.2 Organisational Frontlines as Sites to Manage Interdependence

Organisational frontlines are increasingly recognised as the interface where macro-level policy ambitions are translated into micro-level practice (Singh et al., 2017). Rather than acting as passive conduits for top-down directives, frontline actors actively interpret, modify, and sometimes resist institutional logics in order to align with the lived realities of service users (Singh & Bridge, 2023). Singh and Bridge (2023) further conceptualise frontlines as epistemic sites, where the discretionary labour of professionals mediates between abstract institutional goals and the situated complexity of client needs.

This framing is particularly pertinent for analysing WBCs in the care service ecosystem. These WBCs perform extensive sensemaking, emotional labour, and coordination across organisational silos. In their capacity as social prescribing practitioners, their responsibilities extend beyond merely facilitating patient referrals to services. As our findings will show, WBCs function as relational knowledge agents: they bridge epistemic gaps between patients and institutions, realign care goals in light of evolving contexts, and manage interdependencies across domains. Their work underscores the importance of understanding the frontline as a strategic site of interdependence management, instead of a locus of service delivery.

2.3 Anticipatory and Adaptive Capacities in Complex Service Ecosystems

Extant governance scholarship has drawn attention to the need for anticipatory and adaptive capacities in addressing uncertainty and complexity in public service systems (Bovaird, 2008; Duit & Galaz, 2008; Eshuis & Gerrits, 2021; Guston, 2014). Anticipatory governance refers to the institutional capacity for foresight, proactive intervention, and risk mitigation before problems escalate. Adaptive governance, by contrast, involves the ability to respond flexibly and iteratively to emerging conditions through learning, feedback loops, and distributed decision-making (Teisman & Klijn, 2008)

These capacities are applicable in the context of social prescribing, where care delivery unfolds in community settings characterised by fragmented authority, incomplete information, and fluctuating patient needs. In such environments, predefined protocols and linear performance metrics often prove inadequate. Instead, service ecosystems must support frontline actors to exercising discretionary judgement, respond to relational signals, and recalibrate interventions in real time.

We contribute to this literature by showing how anticipatory and adaptive capacities manifest differently across relational, institutional, and infrastructural domains, and how each is enabled or constrained by the interdependencies managed at the organisational frontline. Our findings highlight the need for both top-down structures (e.g., risk escalation protocols, cross-boundary governance mechanisms) and bottom-up discretion (e.g., relational trust-building, context-sensitive timing) to support continuity and transformation in care delivery.

3. Methodology:

3.1 Research Design

This study employed a sequential explanatory mixed-methods design. In the first phase, a survey questionnaire is administered to participants. This was followed by qualitative data collection in the second phase, using participatory photovoice and in-depth interviews. The final phase comprised a series of three focus group discussions. This multi-phase approach allowed us to capture of participants lived experiences, field insights, and relational dynamics in a comprehensive manner.

3.2 Data Collection

Twenty-eight participants were recruited from three institutions within the largest regional public healthcare system in Singapore, using purposive sampling. All participants are well-being coordinators involved in social prescribing. Photovoice was used to elicit visual narratives of frontline interaction, allowing participants to document and reflect on critical moments and environments in their work (Harley, 2012; Holtby et al., 2015; Lune & Berg, 2017; Wang & Redwood-Jones, 2001; Wilson et al., 2007).

3.3 Analysis

All qualitative data was transcribed, anonymised, and coded using abductive logic in MaxQDA software (Braun & Clarke, 2012; Braun & Clarke, 2021; Charmaz & Belgrave, 2012; Conlon et al., 2020). Codes were iteratively clustered by interdependence, frontline configuration (interaction, interface, time), and capacity domain (anticipatory, adaptive) (Corbin & Strauss, 2015; Creswell & Poth, 2018; Susan, 1994; Thornberg & Charmaz, 2014; Timmermans & Tavory, 2012). This analytical matrix allowed us to triangulate patterns across multiple data sources and enhance the validity of our interpretations.

4. Findings:

The findings are structured around the manner in which diverse forms of interdependence, namely: relational, institutional, and infrastructural, shape the adaptive and anticipatory capacities of organisational frontlines in community-based social prescribing. Each form of interdependence manifests in distinct frontline configurations: interaction (e.g. relational work with patients), interface (e.g. coordination across actors and organisations), and time (e.g. ensuring continuity and appropriate timing of engagement). Below sections detail how each type of interdependence influences frontline work, drawing on illustrative examples from the WBCs.

Annex A presents the matrix that maps organizational frontline configuration (interaction, interface, time) to capacity domains (adaptive and anticipatory) and types of interdependencies (relational, institutional, infrastructure).

4.1 Relational Interdependence and Adaptive Capacity

4.1.1 Fostering trust as the basis of interactional engagement

WBCs consistently emphasized that initiating and sustaining client engagement depends on developing relational trust, particularly given patients' low health system literacy and social withdrawal. Adaptive capacity in this context involves tailoring the tempo and tone of interaction to the patient's emotional readiness and needs:

"Sometimes I spend up to an hour with them at home, simply talking—because I want to see them beyond their medical conditions. They are not just patients with high blood pressure or diabetes. They are individuals, and I want to understand them on a personal level..." (Patrick)

WBCs often engage individuals who are highly vulnerable and socially isolated, with poor social determinants of health. In cases involving trauma, chronic isolation, or mental health challenges, relational interdependence is magnified. Effective engagement requires time-intensive, emotionally attuned interactions and patience on the part of the coordinator. As one WBC noted, meaningful change in these situations is gradual:

"... change takes time. The outcomes of our work are not immediate—but that doesn't mean they're not real." (Hui Xin)

By fostering trust and showing personal commitment, WBCs adapt their approach to each client's pace. This relational groundwork is crucial for motivating vulnerable individuals to re-engage with care on their own terms.

4.2 Institutional Interdependence and Anticipatory Capacity

4.2.1 Navigating Eligibility Criteria and Fragmented Mandates

Institutional misalignments such as conflicting referral pathways, unclear program boundaries, and rigid eligibility criteria, often undermine the potential for proactive, preventative care. WBCs frequently find themselves in situations where formal rules or siloed program mandates fail to accommodate the complex realities of community-based care. One coordinator described the frustration of a client being deemed ineligible for a beneficial service due to an arbitrary geographic boundary:

"Although we arranged the visit and she liked the centre, she was told her home falls outside the

boundary. That really disappointed her.” (Hui Xin)

Such structural gaps impede anticipatory engagement, where early intervention or pre-emptive support could prevent deterioration in a client’s well-being. A lack of horizontal alignment between organizations arises when healthcare, social services, and community agencies operate under different rules or criteria. Such misalignment translates into missed opportunities for early intervention. At the same time, limited vertical flexibility in how policies are implemented locally constrains WBCs’ discretion to bypass or adjust rigid rules. In short, WBCs’ anticipatory capacity is curtailed when agencies fail to coordinate or when top-down rules leave little room for frontline judgment. Consequently, problems with institutional interdependence problems make it difficult to intervene before minor issues become crises.

4.3 Infrastructural Interdependence and Frontline Capacity

Infrastructural interdependence encompasses the tangible and intangible resources that link patients to services. Such tangible and intangible resources include transportation, technology, protocols, and information flows. This form of interdependence influences both adaptive and anticipatory capacities on the frontline. WBCs must often compensate for gaps in the service infrastructure in two ways: by bridging knowledge asymmetries at the interface between patients and providers, and by improvising solutions when formal support structures for risk management are lacking.

4.3.1 Bridging informational and epistemic gaps through the interface

Many patients have low awareness of available services or misperceive their own needs. In response, WBCs act as knowledge brokers, translating between institutional logics and the patient’s personal context. They demonstrate adaptive capacity by modifying official messages, simplifying complex information, and adjusting expectations to fit the practical constraints of patients’ lives:

“We conduct on-site interventions, primarily providing psychosocial support. When necessary, we also make referrals to relevant services. For instance, if clients are unable to shower or clean their homes independently, we can refer them to home help services for additional support. If they have difficulties attending medical appointments, we can arrange for medical escort services as well.” (Anjali)

In this example, the WBC aligns service offerings with the client’s circumstances and motivation. Interface-level adaptability means calibrating the scale, intensity, and format of interventions to what is logistically feasible and culturally acceptable for the client. By leveraging their system knowledge and the flexibility of community resources, WBCs fill informational gaps and help clients navigate a complex care landscape that would otherwise be overwhelming.

4.3.2 Improvising safety and care in high-risk environments

WBCs also routinely encounter clients with escalating psychosocial or health risks—such as expressed suicidal intent, domestic violence situations, or severe mobility limitations—without clear protocols or sufficient support for escalation. Given that social prescribing targets patients experiencing significant social inequities, such high-risk scenarios are not uncommon. WBCs often must exercise anticipatory judgment in the moment, improvising safety measures in real time where the formal infrastructure is absent or slow to respond:

“What happens when someone says, ‘I want to beat my wife’ or ‘I want to kill myself,’ and still

refuses counselling? Then you're left thinking, 'So now what?'" (Chien Ming)

"Sometimes we even need to push them in a wheelchair. What if something happens while we're out with them? Who's responsible then?" (Priya)

These frontline risks illustrate a need for infrastructural support from training, legal protection, to transport protocols for WBCs. There is a clear need for safeguards such as better training for handling crises, legal protections for staff acting in risky community settings, and protocols for transportation or emergency response. However, in the current decentralized system, such support may be lacking or inconsistently available. The absence of a reliable, system-wide safety net compels WBCs to rely on personal judgment and ad-hoc solutions, placing excessive emotional and operational burdens on individual coordinators. This underscores how infrastructural interdependence in terms of both physical resources, procedural and knowledge support, can constrain the anticipatory capacity of the frontline.

4.5 Synthesis: Interdependence, Frontline Configuration, and Capacity

Together, these findings show that WBCs enact adaptive capacity by tailoring care pathways in response to relational and informational asymmetries as well as develop anticipatory capacity by recognising risks and attempting to act preventatively despite structural constraints. These capacities are exercised through interaction (e.g., relationship-building with patients), interface (e.g., cross-boundary coordination and knowledge brokering), and time (e.g., sustained engagement and timely interventions).

The analysis reveals that organisational frontlines are not passive implementation sites but active zones of interdependence management, where formal institutional rules are continuously interpreted, or negotiated to enable value co-creation. Without appropriate relational, institutional, and infrastructural support in place, these frontlines face limits in achieving the holistic, long-term outcomes envisioned by social prescribing.

5. Discussion:

This study advances public management and service ecosystem scholarship by conceptualising the organisational frontline as a dynamic site in managing interdependence in community-based care. Drawing on the lived experiences of Well-Being Coordinators (WBCs) operating in Singapore's social prescribing landscape, we illustrate how frontline actors mediate between institutional intent and the complex, lived realities of communities. Far from serving as passive conduits for policy execution, WBCs function as relational knowledge agents who adapt, negotiate, and reconfigure service pathways in response to both human and systemic contingencies.

Three key insights are evident from our findings.

First, WBCs operate at the intersection of multiple forms of interdependence: relational, institutional, and infrastructural. Each form of interdependence shapes what is possible at the organisational frontline. Relational interdependence is evident in fostering trust and emotional labour is required to motivate vulnerable individuals to re-engage with the goals of care. Institutional interdependence is manifested in the need to align goals and processes across service boundaries. For example, navigating referral protocols, and eligibility criteria so that patients do not fall through the cracks. Infrastructural interdependence relates to the physical, procedural and informational pathways through which services are accessed. This includes the knowledge networks and information flows necessary to connect patients with resources and to enable WBCs to assist clients overcome low system literacy or navigational challenges. These

interdependencies impact service processes and care outcomes, and they must be actively managed by frontline actors in real time.

Second, the distinction between anticipatory and adaptive capacities clarifies the dual expectations placed on frontline actors. Anticipatory capacity involves proactive engagement, and early risk identification. For instance, detecting signs of psychosocial distress in a client and acting before a crisis, or navigating bureaucratic hurdles to overcome a service gap. Adaptive capacity, by contrast, is needed when plans falter or contexts shift, demanding on-the-ground improvisation, relational recalibration, and logistical workarounds. Our data illustrate that WBCs routinely toggle between these two modes, yet they often do so with limited formal infrastructure or guidance to support transitions. These findings underscore how frontline discretion is undervalued, despite being a critical governance mechanism in community-based care.

Third, effective service ecosystems require the convergence of relational, institutional and infrastructural capacities at the frontline. When institutional arrangements are fragmented or inter-organisational coordination is delayed, frontline actors are pushed into constant improvisation, compromising both their well-being and the continuity of care. In contrast, where systems enable bottom-up learning, cross-organisational responsiveness, and shared understanding of risks and roles, the efforts of frontline actors are amplified rather than constrained. This underscores the importance of designing frontline configurations across interaction, interface, and time, that are structurally supported and contextually responsive. The ecosystem of community-based care must integrate relationship-centred practice, flexible protocols for person-centred care, and robust infrastructure (including information and knowledge support) to fully leverage frontline contributions.

Collectively, these insights reposition the organisational frontline as a strategic interface where public value is negotiated and co-created under conditions of uncertainty. This perspective has direct implications for how relational care is conceptualised, operationalised, and evaluated in complex service ecosystems.

6. Conclusion

This paper examined how Well-Being Coordinators function as organisational frontlines in community-based social prescribing system. By analysing the key interdependencies (relational, institutional, and infrastructural) that shape their practice, we illuminate how frontline actors are either enabled or constrained in delivering adaptive, anticipatory care for vulnerable populations.

We advance a novel analytical matrix that links these interdependencies to frontline capacities (interaction, interface, and time), clarifying how different configurations either support or strain continuity of care. In doing so, we reconceptualise organisational frontlines as epistemic sites of care innovation, where discretion, knowledge brokering, and emotional labour are central to the creation of public value.

Our findings offer two core contributions to public management theory and practice. First, we show that frontline capacity is not simply a function of individual skill or professionalism. Rather, frontline capacity is deeply contingent on ecosystem design wherein flexibility in institutional arrangements, supportive coordination infrastructure, and relationally attuned governance are essential. Second, we argue for performance frameworks and accountability metrics that are non-linear given the co-created nature of care outcomes in community settings. Traditional metrics premised on transactional service delivery and linear accountability are insufficient for capturing the recursive, adaptive logic of relational care.

To strengthen the organisational frontlines of social prescribing, public managers including

public healthcare and community care leaders should consider investing in:

- Structured training for community workers in the frontline in areas such as risk navigation, relational engagement, and boundary-spanning collaboration.
- Escalation and feedback mechanisms that support anticipatory governance, so that early warnings and on-the-ground insights from frontliners inform higher-level decision-making.
- Evaluation tools and timelines that account for time-lagged and diffused outcomes of preventive care, instead of focusing only on immediate, individual-level outputs.
- Collaborative governance structures that integrate institutional and community perspectives, enabling cross-sector alignment and shared responsibility for patient well-being.

Future research should explore how these frontline roles and capacities evolve in different policy contexts. It should also investigate models of distributed accountability for shared care outcomes, and co-design participatory monitoring tools that make visible the contributions of frontline actors within complex, adaptive service ecosystems.

Annex A:**Matrix mapping organizational frontline to capacity domains and types of interdependencies**

Types of Interdependencies	Organizational Frontline Configuration			Capacity Domains	Description
	Interaction	Interface	Time		
Relational	Build relationships and emotional connection	Earning patient trust	Longitudinal engagement	Adaptive	Sustaining motivation and trust over time through empathy, presence, and cultural sensitivity
	Emotional containment and de-escalation	Crisis response across health-social boundaries	Real-time responsiveness	Adaptive	Managing behavioural or emotional risk in the community
	Establish legitimacy with patients and professionals	Clarifying role in unfamiliar systems	Early or initial engagement	Anticipatory	Establishing credibility of WBC role for cooperation and recognition
Institutional	Escalate complex cases	Cross-system referrals, ethical decision-making	Contingent on risk escalation	Anticipatory	Creating formal mechanisms for structured escalation and accountability
	Monitor post-discharge needs	Operating beyond formal case closure	Post-discharge continuity	Adaptive	Extending care beyond institutional timelines to support community reintegration
	Structured risk assessment and pre-visit preparation	Data-sharing across systems and actors	Pre-engagement	Anticipatory	Proactively identifying safety, infection, or psychosocial risks
Infrastructural	Safe and practical service delivery	Negotiating unsafe home settings and volunteer shortages	During field operations (i.e., in community settings)	Anticipatory	Enabling protective protocols for frontline actors
	Patient mobility and access facilitation	Coordinating transport, escorts, physical support	Between appointments	Adaptive	Overcoming logistical barriers to community participation
	Data access and communication tools	System interconnectivity across institutions	Just-in-time planning	Anticipatory	Ensuring WBCs can access and contribute to relevant patient records

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