Unravelling collaborative governance dynamics within healthcare networks: a scoping review

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Accepted on 30 January 2024

Abstract

In many countries, healthcare systems suffer from fragmentation between hospitals and primary care. In response, many governments institutionalized healthcare networks (HN) to facilitate integration and efficient healthcare delivery. Despite potential benefits, the implementation of HN is often challenged by inefficient collaborative dynamics that result in delayed decision-making, lack of strategic alignment and lack of reciprocal trust between network members. Yet, limited attention has been paid to the collective dynamics, challenges and enablers for effective inter-organizational collaborations. To consider these issues, we carried out a scoping review to identify the underlying processes for effective inter-organizational collaboration and the contextual conditions within which these processes are triggered. Following appropriate methodological guidance for scoping reviews, we searched four databases [PubMed (n = 114), Web of Science (n = 171), Google Scholar (n = 153) and Scopus (n=52)] and used snowballing (n=22). A total of 37 papers addressing HN including hospitals were included. We used a framework synthesis informed by the collaborative governance framework to guide data extraction and analysis, while being sensitive to emergent themes. Our review showed the prominence of balancing between top-down and bottom-up decision-making (e.g. strategic vs steering committees), formal procedural arrangements and strategic governing bodies in stimulating participative decision-making, collaboration and sense of ownership. In a highly institutionalized context, the inter-organizational partnership is facilitated by pre-existing legal frameworks. HN are suitable for tackling wicked healthcare issues by mutualizing resources, staff pooling and improved coordination. Overall performance depends on the capacity of partners for joint action, principled engagement and a closeness culture, trust relationships, shared commitment, distributed leadership, power sharing and interoperability of information systems To promote the effectiveness of HN, more bottom-up participative decision-making, formalization of governance arrangement and building trust relationships are needed. Yet, there is still inconsistent evidence on the effectiveness of HN in improving health outcomes and quality of care.

Keywords: Healthcare networks, inter-organizational collaboration, collaborative governance, hospital groups, scoping review, framework

Introduction

Nowadays, health systems confront increasingly complex wicked challenges such as global health pandemics (e.g. COVID-19), demographic and epidemiological transitions, budgetary constraints and fragmented health service delivery (Field *et al.*, 2020). Yet, health systems require strong care integration and efficient collaboration between health-care institutions, health workers and communities (Berman, 1995; Sturmberg *et al.*, 2012; Witter *et al.*, 2022).

However, in most instances, healthcare reforms are implemented using hierarchical top-down planning, which lacks organizational resilience to adapt to 'wicked' health challenges (Plastrik and Taylor, 2006; Grint, 2008). By wicked challenges, we mean health issues characterized by non-linearity (i.e. emergence and feedback and feedforward loops) and interdependency that increases the need for cross-boundary coordination (Tremblay *et al.*, 2019). Addressing these challenges requires new flexible forms of governance that extend beyond the scope of individual health-care organizations (Mervyn *et al.*, 2019).

In many countries, addressing complex, wicked challenges, the rising cost of care, care fragmentation and inequitable access to care have urged the territorial grouping of public hospitals and other healthcare providers. Over the past two decades, new models of healthcare collaboration have been developed in high-income countries, such as area hospital networks (e.g. 'Groupement Hospitalier de Territoire' in France) and accountable care organizations in the USA. Evidence suggests that healthcare networks (HN) can facilitate inter-organizational collaboration and efficient referral

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Key messages

- Healthcare networks represent a viable approach to integrate care between hospitals and primary care. The institutionalization of healthcare networks requires robust leadership, effective coordination, appropriate resource mobilization and healthcare staff pooling.
- Implementing healthcare networks often requires a balance between top-down policies, including a general legal policy framework institutionalizing a comprehensive healthcare reform, and bottom-up initiatives combining adaptive leadership, community participation and transformative learning processes.
- Lack of interoperable health information systems and insufficient relational coordination among professionals impede effective collaboration within healthcare networks.
- We found that organizational learning and relational collaboration among healthcare organizations are crucial in establishing enduring, dynamic inter-organizational partnerships.

systems and strengthen public–private partnerships in healthcare (Clement *et al.*, 1997; Mccue *et al.*, 1999; Collerette and Heberer, 2013; Field *et al.*, 2020).

HN were designed to improve inter-organizational cooperation, operational efficiency and resource mutualization (e.g. centralization of information systems, purchasing and human resources) (de Pourcq *et al.*, 2019, Field *et al.*, 2020). Here, we define the inter-organizational performance (i.e. partnership effectiveness) as the combination of capabilities and resources to produce changes in healthcare programmes, improvement of healthcare utilization, responsiveness, costs of health services, satisfaction of stakeholders and improvement of population health indicators (Lasker *et al.*, 2001; Aunger *et al.*, 2021).

Yet, mixed evidence has been reported on the effect of HN on financial performance, cost containment and overall inter-organizational performance. For instance, some scholars found that less-integrated networks and complex hospital networks are associated with negative operating margins with no short-term economic benefit (Moscovice *et al.*, 1995; Clement *et al.*, 1997; Mccue *et al.*, 1999; Nauenberg *et al.*, 1999; de Pourcq *et al.*, 2019). Others found no relationship between the governance of HN and overall inter-organizational performance (Alexander *et al.*, 2006; Addicott *et al.*, 2007).

HN are decentralized governance structures designed to improve inter-organizational collaboration, enable local adaptation of national health policies, promote the integration of healthcare services and prioritize patient-centred care (Barnes *et al.*, 2016; Fisher *et al.*, 2016; Shortell, 2016). HN can consist of various combinations of facilities, including hospitals, primary healthcare facilities and other types of healthcare facilities (social and community care, emergency care, etc). Despite undeniable benefits, the implementation of HN can be challenging (e.g. lack of clinical integration, fragmented decision-making, poor strategic alignment among network partners, increased staff workload and resistance to change) (de Pourcq *et al.*, 2019, Field *et al.*, 2020). These stem from various degrees of strategic responses of healthcare organizations to government pressure and institutional mandates (de Pourcq *et al.*, 2019). This highlights the importance of studying the different characteristics of healthcare networks, the underlying policy processes and drivers of change, and the underlying collaborative dynamics for effective collaboration and contextual conditions that enable or hinder overall inter-organizational performance, improved population health management, and quality and access to care.

Despite the growing academic and practitioner interest in HN, there is still a lack of evidence about the enablers and facilitators of inter-organizational collaboration within HN in the field of Health Policy and System Research (de Pourcq *et al.*, 2019; Madsen and Burau, 2021). Hence, the question of fostering inter-organizational collaboration in HN remains unanswered (Denis *et al.*, 2001; Fisher *et al.*, 2016; Shortell, 2016).

To address this knowledge gap, this scoping review aimed to synthesize evidence about the underlying collaborative processes and contextual enablers and facilitators of effective inter-organizational collaboration within HN. The review will attempt to fill the policy gaps expressed by key stakeholders during a workshop organized in March 2022 at the Mohammed VI University of Health and Sciences (UM6SS), highlighting the lack of clarity on the most appropriate configuration of HN that will best fit the Moroccan context and what enablers and barriers to take into consideration during the actual implementation of area HN. This scoping review will provide some lessons learnt for policy makers to address the persistent divide between health policy processes and the actual healthcare service provision, weak autonomy of public hospitals and poor collaboration between different healthcare facilities at local levels (Royaume du Maroc, 2013; CESE, 2016; Witter et al., 2016; Essolbi et al., 2017; Akhnif et al., 2019).

The results of the review will inform a workshop with policymakers and researchers at the Knowledge for Health Policies at UM6SS to support future decision-making concerning the implementation of area HN in Morocco.

Material and methods

We followed the methodological guidance for scoping reviews developed by Arksey and O'Malley, 2005 and later adapted by Levac *et al.*, 2010. We adopted the following steps: (1) consultation with key stakeholders, (2) formulation of the review question, (3) identification of relevant studies, (4) study selection, (5) data charting, and (6) collation and summary of findings and reporting of results. The scoping review approach proved appropriate in reviewing a broad and heterogeneous body of evidence (Belrhiti *et al.*, 2018; Langlois *et al.*, 2018).

The collaborative governance framework

Following guidance from the literature (Booth and Carroll, 2015; Langlois *et al.*, 2018), we used a framework analysis to guide the different steps of this scoping review. We used 'the integrative collaborative governance regime (CGR) model' developed by Emerson *et al.*, 2011 (see Figure 1). It is considered a cross-disciplinary framework applied in different disciplines, such as in public administration (Emerson *et al.*, 2011; Emerson, 2018), in healthcare (Tremblay *et al.*, 2021) and in low- and middle-income countries (Ansell and Gash, 2008;

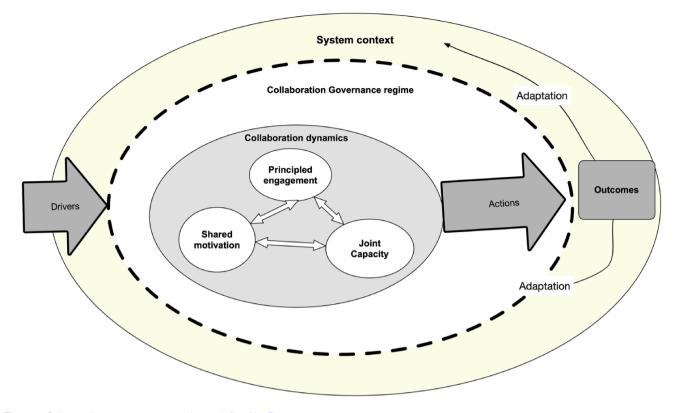


Figure 1. Collaborative governance dynamics as defined by Emerson, 2018

Emerson, 2018). The CGR model allows for a systemic understanding of collaborative dynamics and provides a commonly used framework applicable in the comparative empirical analysis of inter-organizational collaboration processes, internal dynamics causal pathways and performance (Emerson, 2018).

CGRs serve as mechanisms for cross-boundary collaboration and governmental processes that bring together multiple stakeholders in consensus-based decision making (Ansell and Gash, 2008; Emerson *et al.*, 2011). These regimes encompass collaborative dynamics, which involves principled engagement, shared motivation and the capacity for joint action that enable concrete collective actions leading to organizational outcomes and adaptive changes (see Figure 1). 'Principled engagement' refers to long-term interactions between stakeholders across administrative boundaries. 'Shared motivation' encompasses internal legitimacy, mutual trust and commitment among actors. The 'capacity for joint action' involves the requisite means for collaboration, including procedures, institutional arrangements, leadership, knowledge and resources (Emerson *et al.*, 2011; Emerson, 2018).

'Collaborative dynamics' are shaped by the general system context, encompassing contextual drivers of change embedded in a healthcare systems' political, economic, environmental and social contexts. These drivers include leadership, external crises, health system reforms, the context of uncertainty and interdependence (see Figure 1).

Consultation with stakeholders

We developed our review questions in response to a prioritysetting exercise during a stakeholder workshop on 17 March 2022. This workshop involved stakeholders from the Ministry of Health and Social Protection, central and regional health officers, representatives from national health observatories, and representatives from the World Health Organization office and other research and policy centres, The Alliance for Health Policy and System Research, and other ministerial departments at the Knowledge for Policy Centre at the UM6SS, Casablanca.

During the workshop, we used an inductive process using post its and flip charts to categorize key topics expressed by stakeholders. Among the topics identified, stakeholders emphasized a lack of consensus among policymakers on the nature, type and implementation processes of HN within the actual healthcare reforms in Morocco. We then finalized our review question as follows: What are the different typologies of healthcare networks, and what are key enablers and barriers that might facilitate or hinder the implementation of the area healthcare networks? More specifically, we focused on patterns of social processes and mechanisms that facilitate or hinder efficient coordination between healthcare facilities within HN.

This scoping review aims to reflect on the lessons learnt from other international experiences and provide policy recommendations to inform the ongoing reforms of area HN [or Groupement Sanitaire de Territoire (GST)] institutionalized by a legal framework in 2021 by the Ministry of Health and Social Protection (Kingdom of Morocco, 21).

Specifying the review question

Following several meetings with the research team, we further refined our review question as follows. (1) What are the characteristics of inter-organizational collaboration within the context of HN? (2) phe contextual conditions within which these processes are enabled or hindered?(3)

What are the key lessons learnt to improve interorganizational collaboration within HN? To what extent do these lessons learned fit the North African and Middle East context?

Identification of relevant studies

We searched four databases (PubMed, Web of Science, Google Scholar and Scopus). We identified additional sources through manual searching, citation tracking and snowballing from reference lists. We framed our search strategy using the phenomenon of interest–concept–context (PCC) framework (Peters *et al.*, 2015). (1) Phenomenon of interest: 'hospital networks' or 'hospital grouping' or 'accountable care organisations', (2) concept: inter-organisational collaboration, (3) context: healthcare.

We used the following search strategy in PubMed: ('interorganisational collaboration' OR 'relational collaboration' OR 'collaborative governance' OR 'Inter-organisational coordination' OR 'Institutional Collaboration' OR 'organisational collaboration') AND ('Strategic alliances' OR 'organisational collaboration') AND ('Strategic alliances' OR 'Cooperative arrangements' OR 'Collaborative agreements' OR 'networks' OR 'grouping' OR 'Mergers' OR 'Partnership' OR 'Alliances' OR 'Groups') AND ('healthcare' OR 'Health' OR 'hospitals' OR 'accountable care organisations') (other search strategies are given in supplementary Appendix 1, see online supplementary material).

Study selection

We included peer-reviewed papers published between 2012 and 2022 that specifically addressed in the title or the abstract the notion of collaborative governance or inter-organizational collaboration within HN. We excluded protocols, reviews, commentaries, conference proceedings and book reviews. Additionally, we excluded papers focused on clinical collaboration and HN that do not include hospitals and studies outside the healthcare sector. We used the Rayyan software (Ouzzani *et al.*, 2016) to manage the title and abstract selection.

Charting the data and synthesis of results

Data charting was informed by the CGR framework (Emerson, 2018). The CGR framework is based on the integration of empirical research data from various settings in public management (O'Leary et al., 2009; Kelman et al., 2013) and in healthcare (de Pourcq et al., 2019, Bennett et al., 2018). We selected Emerson's CGR framework for its broad applicability in different disciplines, particularly in healthcare (Tremblay et al., 2019). We adopted the CGR to explore cross-boundary governance systems and inter-sectoral collaboration at national, regional and local levels, including in low- and middle-income countries (Emerson, 2018, Emerson et al., 2011). CGR was selected for its wide application in cross-disciplinary research, including in public administration (Berends et al., 2016; Scott and Thomas, 2017), management, health policy and system research (Beran et al., 2016; Tremblay et al., 2019; Grootjans et al., 2022), both in high- and in low- and middle-income counties (Emerson, 2018, Robert et al., 2022; Emerson, 2018).

We used thematic analysis (Gale *et al.*, 2013) to guide data charting while being sensitive to emerging themes. In practice, we used Emerson's a priori framework to guide the initial

deductive coding of key collaborative governance processes. We used a data charting grid using Excel software (see supplementary Appendix 2 in the online supplementary material) that comprised three parts. (1) General description of included studies (author, date, publication country origin, participants to the network, study objectives, study type and design, definitions of collaborative governance, barriers and facilitators, study limitations); (2) collaborative governance framework themes [general system context, drivers of change, collaborative dynamics (principled engagement, shared motivation, capacity for joint actions)]; and (3) outputs and outcomes (Emerson, 2018, Emerson *et al.*, 2011).

We were also sensitive to emergent themes. We inductively coded processes facilitating or hindering the collaborative dynamics within HN.

Results

We included a total of 539 papers after removing 100 duplicates. After title, abstract and full-text screening, only 37 articles fit our inclusion criteria (see Figure 2). We found that most studies of hospital networks were reported in the USA, Canada and Belgium. Few studies were reported in Sub-Saharan Africa. None were published from the Middle East and North African region (Figure 3).

Most studies (24 out of 37) used qualitative designs and multiple data collection, including interviews, focus group discussions, participant observation and document analysis (see Appendix 1 table 1). Seven studies used mixed methods designs. Only six studies used quantitative design. Some authors used innovative research approaches such as the realist evaluation (Tremblay *et al.*, 2019), ethnography (Waring and Crompton, 2019), social network analysis (n=2) (Nicaise *et al.*, 2013; de Brún and Mcauliffe, 2020), health policy analysis (n=3) or participatory action research (n=2) (see supplementary Appendix 3 in the online supplementary material). All included studies relied on retrospective data, except for Klinga, 2018 and Tremblay *et al.*, 2019 who adopted a longitudinal design.

Typology of HN

There is a variety of HN. These can be classified according to a structural perspective depending on the type of partner organizations [exclusively formed by hospitals or combining hospitals with primary, social, community care and other educational services (labelled multi-stakeholder HN)] (see Figure 4).

Hospital networks are strategic alliances of public hospitals in the same public health regions. Examples are 'hospital territorial groups' in France (Tourmente, 2016), accountable care organizations in the USA (Field et al., 2020) and hospital networks in Spain (Bernardo et al., 2012). Other integrated HN included, besides hospitals, different types of healthcare providers such as primary care and social care facilities in Canada (Breton et al., 2013), Italy (Romiti et al., 2018), Portugal (Franco and Duarte, 2012), The Netherlands (Van Der Schors et al., 2021; de Regge et al., 2019) and in the USA (Spitzmueller et al., 2020). Many multidisciplinary networks were organized according to the scope of services provision around specific high-priority health programmes (traumatology, mental health) (Nicaise et al., 2013), palliative care, chronic obstructive pulmonary disease (COPD) and oncology networks in Quebec (Wankah et al., 2018;

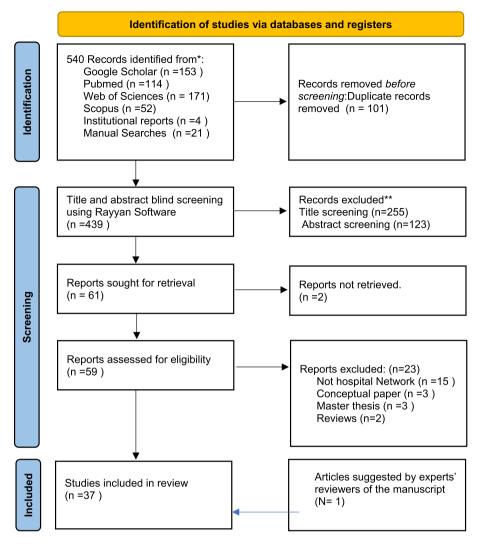


Figure 2. PRISMA 2020 flow diagram

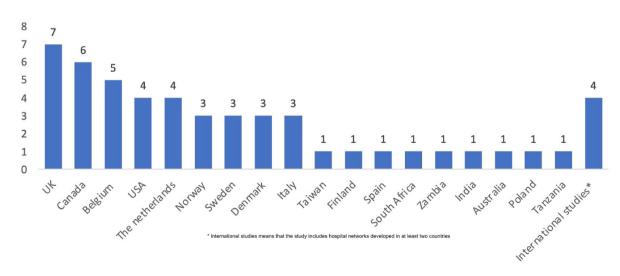


Figure 3. Geographical distribution of included studies

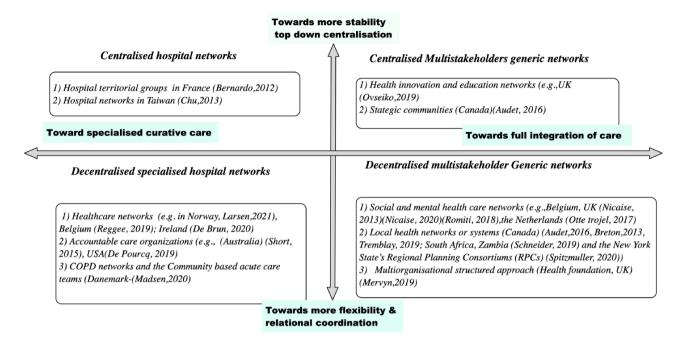


Figure 4. The typology of healthcare networks

Tremblay *et al.*, 2019) and in Poland (Sus *et al.*, 2019) and maternal neonatal care in Tanzania (Sequeira D'mello *et al.*, 2020).

We also found that HN can be classified as centralized vs decentralized. In some countries, the HN was institutionalized by legal frameworks and implemented in a hierarchical top-down fashion in the context of comprehensive healthcare reforms. For instance, in the UK, the Health and Social Act of 2012 triggered the reorganization of health providers into clinical commissioning groups led by general practitioners and the creation of a national foundation trust, an autonomous grouping of National Health Service health providers including teaching hospitals over which the Department of Health has no control (Ovseiko *et al.*, 2014).

In contrast, decentralized HN are characterized by the lack of centralized governing bodies, which promote relational coordination within loosely coupled networks of primary healthcare facilities. In countries such as Belgium and the USA, the network formation followed a decentralized policy implementation and bottom-up decision-making processes with the participation of various stakeholders at local levels (health facilities managers and providers, social services and community actors). One example are Healthcare Innovation Education Clusters in the UK, where members belong to various institutions (National Health Service providers, general practitioner practices, higher education institutions, local government, charities and industries) (Sarcone and Kimmel, 2021).

In Canada, the 2015 healthcare care network reforms set the agenda for the reorganization of primary HN, the formation of strategic communities and the creation of the Quebec Cancer Network (Wankah *et al.*, 2018; Tremblay *et al.*, 2019, Breton *et al.*, 2013; Audet and Roy, 2016; Tremblay *et al.*, 2021). In Portugal, the merger of primary HN with social care facilities has facilitated the integration of health systems through the creation of the Mission Unit for Integrated Continuing Care (Franco and Duarte, 2012) Decentralized HN are considered to be flexible organizational forms which favour full integration between health and social services, and improve relational coordination between various stakeholders and resilience to address wicked health challenges, such as the coordination of cancer and mental health clinical pathways (Tremblay *et al.*, 2019, Schneider *et al.*, 2019, Tremblay *et al.*, 2021). HN here can be considered complex adaptive social systems that favour better knowledge sharing, efficient mutualization of resources, staff pooling and cross-boundary institutional capacity building (Bernardo *et al.*, 2012).

In summary, top-down, centralized health care may be more suitable for highly specialized hospitals. In contrast, bottom-up complex adaptive networks are better suited for health networks combining primary care with secondary hospital care in multiple heterogeneous geographical areas.

The collaborative governance regime

In this section, we report themes identified according to the framework described by Emerson *et al.*, 2011. Additional emergent themes were identified using thematic analysis (see Table 1). Our scoping review showed that most of the studies reported empirical evidence on the importance of principled engagement (27 out of 37), shared motivation (24 out of 37) and capacity for joint actions (20 out of 37). These factors were considered crucial in leveraging internal collaborative dynamics within HN. However, few studies addressed adaptive and systemic changes (11 out of 37) and collaborative outputs (16 out of 37). Most studies focused on barriers (5 out of 37) rather than facilitators (18 out of 37).

The general system context

Our scoping review showed that the formation of HN is often influenced by contextual factors that motivate the prospect of a new collaborative governance regime. The general system context refers to the challenges and opportunities that influenced the formation of HN. These include social, economic

First author, year	Principled engagement	Shared motivation	Capacity for joint actions	Collaborative outputs	Collaborative outcomes	Adaptation	Barriers	Facilitators
Audet and Roy, 2016	x	х	x	х	x			х
Bagwell et al., 2017		х		х	х			
Bernardo <i>et al.</i> , 2012		х	х	х	х	x	х	x
Breton <i>et al.</i> , 2013							х	
Cazin <i>et al.</i> , 2022	х	х	х	Х	х		х	х
Chu and Chiang, 2013					х			
de Brún and Mcauliffe, 2020	х	х			Х		x	
Sequeira D'mello <i>et al.</i> , 2020	х	х	х	х	х	х	х	x
de Regge <i>et al.</i> , 2019		х		х		х	х	
de Vries <i>et al.</i> , 2019	х		х		х			х
Hermans <i>et al.</i> , 2019	х	х	х				х	
Hyrkäs <i>et al.</i> , 2020	x	х	х	X	х		x	х
Karlsson <i>et al.</i> , 2020	x	х		х		х		x
Klinga, 2018	х		x	x	х	х	х	x
Lang, 2016	х	х	х	х	х	х	х	х
Larsen <i>et al.</i> , 2021	x	х					x	x
Lyngsø, 2016	х	х	х				х	х
Madsen and Burau, 2021	х		Х		Х		х	
Mervyn et al., 2019	х		x	х		х	х	х
Nicaise <i>et al.</i> , 2013			х					
Nicaise <i>et al.</i> , 2021	х		х				X	
Otte-Trojel <i>et al.</i> , 2017	х	х			х	х	х	
Ovseiko et al., 2014	х	х	х				х	х
Vindrola-Padros et al., 2022	х	х	х	х	Х		x	х
Palumbo <i>et al.</i> , 2017			х		х			х
Reimold <i>et al.</i> , 2022				х	Х			
Romiti et al., 2018	х	х	х					х
Sarcone and Kimmel, 2021	х	х		х		х	х	
Schneider <i>et al.</i> , 2019	х	х	X		х	X	х	х
Short, 2015	x	x	х					
Spitzmueller <i>et al.</i> , 2020	x	х		х		х	х	
Sus et al., 2019	x	x		х	х		х	
Tremblay <i>et al.</i> , 2019		x			х		х	
Tremblay <i>et al.</i> , 2021	х	Х			х		х	
Wankah <i>et al.</i> , 2018	x	х	x	x			x	x
Waring and Crompton, 2019	х						х	х
Van Der Schors, 2021	x				х	х		

and political conditions such as political dynamics and power relations within communities. The general system context that triggered the formation of centralized health networks was hallmarked by top-down hierarchical reforms where the stewardship role of the governing entities is considered a crucial factor in the coordination between various health providers. For instance, de Vries *et al.*, 2019 showed that, in managing regional outbreaks in The Netherlands, regional public health agencies and hospitals played key stewardship roles in coordinating the outbreak response. In these settings, HN were considered policy instruments to promote system changes in the governance of health systems and to foster collaboration beyond healthcare organizational boundaries, which may lead to organizational innovations (Lang, 2019).

In addition, our scoping review showed that the formation of HN was also influenced by the failure of pre-existing traditional structures to address complex inter-organizational coordination [e.g. mental and social care networks in Belgium and the UK (Nicaise *et al.*, 2013; Larsen *et al.*, 2021)], the unsatisfactory performance of traditional healthcare systems, the inefficiency of informal referral systems, the fragmentation of care, limited connectedness between health providers (Nicaise *et al.*, 2013) and lack of mutualization of resources (Palumbo *et al.*, 2017; Reimold *et al.*, 2022).

In this context, the role of legal policy frameworks was considered a critical contextual factor that laid the foundation for inter-organizational collaborations within HN in high-income (Audet and Roy, 2016; Schneider *et al.*, 2019; Larsen *et al.*, 2021; Reimold *et al.*, 2022) and low-income (e.g. Zambia, South Africa, India) (Schneider *et al.*, 2019) countries.

Collaborative dynamics

According to Emerson, collaborative dynamics refer to the drivers that energize participation to overcome the cost of initial network formation and set the dynamic of interorganizational collaboration. As described in Table 1, most included studies referred to Emerson's collaborative dynamics drivers (principled engagement, shared motivation and capacities for joint actions) (Audet and Roy, 2016; Hermans *et al.*, 2019; Cazin *et al.*, 2022).

Principled engagement

Our study has shown that the collaborative dynamics within HN are triggered by the principled engagement of actors, their internal legitimacy, and the underlying dynamics of social interactions based on shared motivation, mutual trust and shared understanding (Otte-Trojel *et al.*, 2017; Mervyn *et al.*, 2019). Shared commitment reinforces synergy among partners who develop a strong sense of ownership and longterm alliance during all project phases (Larsen *et al.*, 2021). Scholars highlighted the importance of maintaining a trustworthy climate and internal legitimacy, which facilitates the adoption of quality improvement healthcare initiatives (Bretas and Shimizu, 2017; Thompson *et al.*, 2020) and fosters long-term sustainable inter-organizational collaboration (Karlsson *et al.*, 2020).

Shared motivation

At the early formation stage of the health networks, most included studies referred to the importance of principled engagement (i.e. mutual commitment) in explaining the willingness of HN actors to share healthcare information (Lyngsø *et al.*, 2016; Hermans *et al.*, 2019; Larsen *et al.*, 2021; Madsen *et al.*, 2021) and to actively participate in the collective decision making processes (steering committees) (Audet and Roy, 2016; Lyngsø *et al.*, 2016; Frankowski, 2019; Spitzmueller *et al.*, 2020)(de Vries *et al.*, 2019). For instance, in The Netherlands, Belgium and Canada, participatory governing bodies named 'strategic communities' allowed the creation of enabling conditions for participatory decision-making and improved mutual understanding and principled engagement of HN members (Audet and Roy, 2016).

Capacity for joint actions *Leadership*

The capacity for joint actions depends on the stewardship of internal governing bodies (strategic and steering committees). These governing bodies formulate, implement and evaluate new area healthcare strategies to better adapt to population needs (Lyngsø *et al.*, 2016). These governing bodies effectively built contractual agreements and long-term strategic alliances and implemented joint collaborative actions such as pooling strategies to tackle human resource shortages (Audet and Roy, 2016; de Regge *et al.*, 2019).

Our scoping review showed the importance of adaptive systemic leadership that combines formal leadership roles of central authorities with emergent distributed leadership that mobilizes operational frontline leadership (Vangen and Huxham, 2003; Vindrola-Padros et al., 2022). Scholars of included studies argued that adaptive leadership is necessary to create a holding environment that supports patient-centred care, resource exchange, peer learning and equitable power distribution (Mervyn et al., 2019). Leadership and governance enable equitable resource marshalling (Palumbo et al., 2017), promote shared goals (Vindrola-Padros et al., 2022) and strengthen the actors' sense of belonging. This is done through participatory decision-making and co-creation of knowledge (Hyrkäs et al., 2020) and continuous adaptation of operational procedures (Audet and Roy, 2016; Cazin et al., 2022).

Scholars asserted that leadership increases shared motivation and fosters mutual commitment and collaborative dynamics over time (Klinga, 2018; Spitzmueller *et al.*, 2020; Vindrola-Padros *et al.*, 2022).

Knowledge and power-sharing

Collaborative leadership creates a holding environment and collaborative spaces and facilitates resource and information exchange (Ovseiko *et al.*, 2014; Palumbo *et al.*, 2017; Klinga, 2018; Romiti *et al.*, 2020; Vindrola-Padros *et al.*, 2022). Strong leadership is critical in framing the architecture of power dynamics, institutionalizing governing bodies and promoting a culture of collaboration instead of competition within the HN (Ovseiko *et al.*, 2014; de Vries *et al.*, 2019; Hermans *et al.*, 2019; Schneider *et al.*, 2019; Romiti *et al.*, 2020).

Scholars such as (Mervyn et al., 2019 and Sarcone and Kimmel, 2021) referred to the importance of relational coordination, particularly in HN, comprising shared goals, shared knowledge, and effective communication to alleviate the cultural and professional differences and power differentials between healthcare entities. Additionally, relational and learning dynamics are considered critical enablers for fostering the utilization of information and communication technologies, reducing staff resistance to change and enabling the implementation of organizational innovation such as telemedicine in HN (Bernardo et al., 2012; Otte-Trojel et al., 2017). Reducing change resistance relies on promoting relational coordination based on accurate and timely communication oriented towards problem solving and a blame-free culture. Relation coordination facilitates the co-production of culturally sensitive knowledge about critical issues in healthcare systems (Mervyn et al., 2019; Nicaise et al., 2021)

Resources

Developing managerial and leadership capacities is needed to ensure efficient resource allocation and appropriate standardization of rules and procedures (Bernardo *et al.*, 2012; Nicaise *et al.*, 2013; 2021; Frankowski, 2019; Lang, 2019; Schneider *et al.*, 2019; Hyrkäs *et al.*, 2020; Madsen *et al.*, 2021; Vindrola-Padros *et al.*, 2022). This will foster shared responsibility of health facility managers and their commitment. Trained healthcare managers effectively provide appropriate follow-up mentorship, benchmarking and coaching, and instil a sense of competition between HN members (e.g. the Kangaroo mother care competition to reward high-quality facilities) (Sequeira D'mello *et al.*, 2020).

Other scholars emphasized the importance of the mutualization of resources within HN (e.g. pooling of human resources and marshalling of equipment and supplies between network members). For instance, in Tanzania, the Comprehensive Community-Based Rehabilitation provided facilities such as starter packs of essential medicines, equipment such as vacuum extractors and suction machines, supplies for neonatal care and the rehabilitation of existing infrastructure using local government funds (Sequeira D'mello *et al.*, 2020).

Finally, promoting leadership development programmes for HN managers will reinforce the capacity of joint action by fostering collaborative and distributed leadership practices (Hermans *et al.*, 2019; Lang, 2019; Mervyn *et al.*, 2019; Schneider *et al.*, 2019; Vindrola-Padros *et al.*, 2022).

Procedural and institutional arrangements

Most scholars emphasized the importance of institutionalizing procedural arrangements, allowing the smooth functioning of HN. Formalization of inter-organizational collaboration refers to the standardization of roles and responsibilities and the design of the network organizational structure and organogram (i.e. strategic steering committees and governing boards) (Waring and Crompton, 2019; Cazin et al., 2022), and developing guidelines, rules and procedures (Cazin et al., 2022; Nicaise et al., 2021). For instance, the Comprehensive Community Based Rehabilitation (i.e. a maternal and neonatal HN including 22 public hospitals) in Tanzania focused on developing a memorandum of agreement, an annual letter of agreement and standard operating procedures, that helped to clarify the roles and functions of network members (health professionals) and facilitated referral systems and timely communication (Sequeira D'mello et al., 2020).

In short, the appropriate mix of leadership capabilities, resources and governance procedural arrangements are vital factors that foster HN capacities of joint actions by providing a supportive and coherent policy environment (e.g. legal instruments, shared mandates and operational management procedures) (Ovseiko *et al.*, 2014; Mervyn *et al.*, 2019; Schneider *et al.*, 2019; Romiti *et al.*, 2020). This includes defining the roles and responsibilities of partners and partnership procedural arrangements (Karlsson *et al.*, 2020; Romiti *et al.*, 2022).

Our scoping review showed that effective collaborative dynamics within a HN depends on the appropriate mix between soft leadership capabilities with formal operational management and procedural arrangements (Mervyn *et al.*, 2019). Many scholars emphasized the crucial role played by soft skills, including interpersonal and intrapersonal relationships, knowledge exchange and trust relationship, in maintaining effective and sustainable collaboration (Larsen *et al.*, 2021; de Brún and Mcauliffe, 2020; Hyrkäs *et al.*, 2020; Madsen *et al.*, 2021; Tremblay *et al.*, 2021).

Outputs of collaborative actions

Inter-organizational collaboration has proven to be beneficial in the development of joint strategic plans and the successful implementation of planned joint actions within HN (Chu and Chiang, 2013; Sus *et al.*, 2019; Hyrkäs *et al.*, 2020; Van Der Schors *et al.*, 2021). Moreover, it has also proved appropriate in facilitating the development of strategic healthcare alliances and the expansion of networks to include other types of health facilities (Bernardo *et al.*, 2012; Bagwell *et al.*, 2017; Cazin *et al.*, 2022; Vindrola-Padros *et al.*, 2022). In practical terms, HN resulted in the increased managerial overall performance of healthcare systems and smooth implementation of cross-organizational quality assurance projects (Sus *et al.*, 2019). HN were considered an effective form of healthcare decentralization (Bernardo *et al.*, 2012; Sarcone and Kimmel, 2021).

The implementation of shared collaborative governance has contributed to the efficiency and competitiveness of partner organizations (Bernardo *et al.*, 2012), strengthened interprofessional relationships, and improved the well-being of health professionals and managers (Otte-Trojel *et al.*, 2017; Palumbo *et al.*, 2017; Sarcone and Kimmel, 2021; Van Der Schors *et al.*, 2021). HN may have facilitated shared collaborative governance and promoted improved long-term outcomes, including staff commitment (Audet and Roy, 2016; Madsen and Burau, 2021), shared responsibility and decisionmaking (Klinga, 2018, Tremblay *et al.*, 2021), trust relationships (Sus *et al.*, 2019), and long-term ownership and commitment (Klinga, 2018).

Collaborative outcomes

Perceived impact. Only eight studies have specifically examined the impact of HN on health outcomes. These studies have focused on various aspects, such as access to care (Schneider *et al.*, 2019; de Brún and Mcauliffe, 2020; Van Der Schors *et al.*, 2021), quality of care (Audet and Roy, 2016; Otte-Trojel *et al.*, 2017; Van Der Schors *et al.*, 2021; Cazin *et al.*, 2022) [e.g. improved maternal and neonatal health (Sequeira D'mello *et al.*, 2020)] and patient satisfaction (Bernardo *et al.*, 2012; Sus *et al.*, 2019). Limited indications suggest that HN might improve financial performance, risk sharing, cost containment efficiency and responsiveness to patients' needs (Sturmberg *et al.*, 2012; de Pourcq *et al.*, 2019).

Our scoping review showed that the implementation of shared internal rules of procedures facilitated interorganizational shared communication channels (Audet and Roy, 2016; de Regge *et al.*, 2019), reduced hospital readmission rates, congestion in tertiary hospitals (Sequeira D'mello *et al.*, 2020) and unplanned hospital admissions for patients with multiple chronic conditions (Reimold *et al.*, 2022), and in some cases had positive effects on community knowledge and well-being (Schneider *et al.*, 2019).

The review also showed that HN allow an optimal redistribution of resources (Audet and Roy, 2016; Mervyn *et al.*, 2019; Karlsson *et al.*, 2020; Sequeira D'mello *et al.*, 2020; Sarcone and Kimmel, 2021), and favour cost reduction (Sequeira D'mello *et al.*, 2020), economy of scale and interorganizational performance (Bernardo *et al.*, 2012; Mervyn *et al.*, 2019).

Adaptive learning outcomes. Relevant outcomes include: shared action learning (Klinga, 2018; Mervyn *et al.*, 2019; Cazin *et al.*, 2022); increased use of information technology by health workers (Audet and Roy, 2016; Bagwell *et al.*, 2017; Sus *et al.*, 2019; Madsen and Burau, 2021); and innovation and improved responsiveness to patient needs (Karlsson *et al.*, 2020; Sequeira D'mello *et al.*, 2020). In practice, developing interoperable health information systems (Klinga, 2018;

Mervyn *et al.*, 2019; Cazin *et al.*, 2022) enables creativity and organizational innovation (Cazin *et al.*, 2022), transforming HN into 'learning organisations' (Tremblay *et al.*, 2021).

HN may improve the quality of clinical interprofessional collaboration (Audet and Roy, 2016), foster research partnerships (Bernardo *et al.*, 2012) and promote innovation projects (Lang, 2019; Hyrkäs *et al.*, 2020). However, the lack of interoperability between health information systems can hinder interpersonal interactions and information sharing (Breton *et al.*, 2013; Hermans *et al.*, 2019; Madsen and Burau, 2021; Vindrola-Padros *et al.*, 2022), thereby reducing the ability of HN to overcome geographical and organizational distances (Otte-Trojel *et al.*, 2017; Madsen and Burau, 2021).

Implementing HN sometimes transformed health policy processes and the system context (Karlsson et al., 2020; de Pourcq et al., 2019, Mervyn et al., 2019). HN facilitate the implementation of healthcare policies that address the significant threats to health systems (Spitzmueller et al., 2020) and can have a transformative impact. This impact includes changing the market structure and the reduction of rivalry among healthcare providers (Sarcone and Kimmel, 2021). For instance, the implementation of HN in The Netherlands led to their institutionalization by government bodies and strategic competition authorities, which established a monitoring programmeme to safeguard the public interest and ensure the affordability and accessibility of care (Van Der Schors et al., 2021). In similar veins, HN have catalysed other systemic changes, such as introducing new care programmes within the health system (Schneider et al., 2019) and adapting healthcare services to changing and increasing demands (Klinga, 2018). However, a lack of alignment between the HN and individual organizational goals can hinder collaborative dynamics (Otte-Trojel et al., 2017).

Finally, to enhance integration within HN, it is essential to have a high degree of coordination in core tasks (clinical pathways), a robust health information system enabling information sharing among healthcare facilities and a sufficient density of qualified health workers. In many low- and middle-income countries, poor health information systems and acute staff shortages often hamper the effectiveness of HN (Schneider *et al.*, 2019; Sequeira D'mello *et al.*, 2020).

Partnership drawbacks

Our scoping review has shown that HN can also have adverse unintended effects. These unintended effects are a persistent lack of organizational proximity due to paradoxical subcultures, power struggles, lack of autonomy and adaptive leadership practices, and increased competition over the reimbursement rate of clinical activities (de Brún and Mcauliffe, 2020). Without adjuvant financing reforms and appropriate incentives for inter-organizational collaboration, HN are unlikely to achieve efficient collaboration (de Brún and Mcauliffe, 2020).

Another negative consequence might be the persistent lack of alignment on goals, objectives, performance targets, reimbursement schemes and quality of care indicators. This often stems from the negative impact of merging healthcare facilities that lack appropriate organizational proximity (divergent corporate cultures, routines), leading to increased care fragmentation (Otte-Trojel *et al.*, 2017). Other scholars reported that the lack of technological proximity might arise when HN partners have an insufficient knowledge base for effectively using different information systems (Otte-Trojel *et al.*, 2017). Paradoxically, overreliance on technology may also hinder effective interpersonal interactions among organizational participants in the networks (Schneider *et al.*, 2019; Madsen and Burau, 2021).

This might be alleviated by developing a shared information system or fostering interoperability between existing systems and exchanging network-wide electronic health records, appropriate task and role clarification and promotion of face-to-face interactions (Schneider *et al.*, 2019).

Discussion

We synthesized evidence about the intricate working of collaborative dynamics within HN including hospitals. These HN are regarded as flexible, pragmatic forms of collaboration. Our review results suggest that HN are suitable for tackling complex, wicked healthcare issues (e.g. integrating healthcare delivery systems) (Waring and Crompton, 2019)(Nicaise *et al.*, 2013; Klinga, 2018; Breton *et al.*, 2013; Bernardo *et al.*, 2012, Lyngsø *et al.*, 2016; Tremblay *et al.*, 2021).

Most scholars reporting the included studies adopted a political science perspective, focusing on concepts such as collaborative governance, deliberation and participative decision-making (de Pourcq *et al.*, 2018; Wankah *et al.*, 2018; de Regge *et al.*, 2019; Tremblay *et al.*, 2019). Other adopted organizational science perspectives ranged from change management, inter-organizational collaboration, innovation, relational coordination and resource exchange theories to network management (O'Leary *et al.*, 2012).

Our review highlighted the significance of considering HN structures as distinct organizational forms balancing topdown hierarchical control and bottom-up governance strategic alliances and committees (Emerson, 2018, Emerson *et al.*, 2011). Furthermore, in line with other scholars (Hofmarcher *et al.*, 2007; Gerkens and Merkur, 2010), our scoping review underscores the importance of socioeconomic and political contexts in shaping and institutionalizing the hospital network initiatives.

The review also showed that lack of integration of care may lead to the rise of conflictual relationships and mistrust between health providers. Thus, the role of HN is to create a common joint interest in building inter-organizational collaboration (principled engagement) to build trustful relationships (mutual trust) and improve working relationships (shared motivation) (Audet and Roy, 2016; Otte-Trojel *et al.*, 2017; Tremblay *et al.*, 2019) and patient-centred collaboration practices (Nicaise *et al.*, 2021).

In line with previous studies (Mandell and Steelman, 2003; Andersson *et al.*, 2011; Field *et al.*, 2020), this review reveals the heterogeneity of configurations of HN formed around hospitals. Such heterogeneity encompasses the nature of inter-organizational collaboration (mandatory or voluntary participation), type of management arrangements (normative vs contractual), degree of inclusiveness of partnerships (top-down vs participatory forms), financial and non-financial incentives, and the centrality of coordination (centralized HN in France vs loosely coupled networks in Belgium and Canada). Finally, our review identified several drivers for interorganizational collaboration reflected in other theoretical frameworks in the field of public management (Salancik and Pfeffer, 1978; Wood and Gray, 1991; Radin *et al.*, 1996; O'Toole, 1997; Thomson and Perry, 2006; Thomson *et al.*, 2014), complexity science (Sturmberg *et al.*, 2012; Belrhiti *et al.*, 2018) and learning health systems (Witter *et al.*, 2022), and health policy and system research (Carmone *et al.*, 2020). These drivers highlight the importance of interdependence, risk sharing, scarcity of resources and the need to address interdependent challenges within multi-layered health systems that are inadequately addressed by traditional top-down governance structures. This is what Grint, 2008 called 'wicked challenges'.

Lessons learnt

This scoping review highlighted some lessons about potential pathways through which HN functioning and synergy lead to positive overall inter-organizational performance. By partnership synergy, we mean the ability to combine the different resources, skills and perspectives of a network of organizations (Taylor-Powell *et al.*, 1998; Richardson and Allegrante, 2000; Lasker *et al.*, 2001; Hunter and Perkins, 2012). Potential pathways for increased synergy among HN partners and inter-organizational performance confirm existing literature observations about the determinants of effective partnership (Taylor-Powell *et al.*, 1998; Lasker *et al.*, 2001; Vangen and Huxham, 2003; Kavanagh and Ashkanasy, 2006; Turrini *et al.*, 2010; Hunter and Perkins, 2012; Aunger *et al.*, 2021). Such pathways include the following.

Trusting relationships

In line with previous studies (Lasker *et al.*, 2001; Vangen and Huxham, 2003; Aunger *et al.*, 2021), trust building appears to be a robust mechanism for stimulating collaborative dynamics and partnership synergy. A reciprocal trust relationship helps reduce power differentials, increases shared motivation and mutual interest, and reinforces mutual respect and faith in collaboration.

Coordination and formalization

In hierarchical mandatory HN, as other scholars have also noted (Lasker *et al.*, 2001; Vangen and Huxham, 2003; Hunter and Perkins, 2012; Aunger *et al.*, 2021), the formalization of operational procedures, equitable resource and information sharing, interoperability of health information systems and standardization of contractual arrangements will likely increase coordination, reduce duplication of services, and improve transparency, accountability, role clarity and efficiency of the partnership functioning. This may lead to the maintenance and sustainability of healthcare partnerships.

System leadership

Existing literature (Taylor-Powell *et al.*, 1998; Lasker *et al.*, 2001; Vangen and Huxham, 2003; Turrini *et al.*, 2010; Hunter and Perkins, 2012) also suggests that complex HN require the development of systemic leadership that distributes power and enables psychological safety, trust relationships and cultural closeness (Aunger *et al.*, 2021). Such

leadership might reduce conflicts, facilitate cultural integration and increase trust, organizational flexibility, innovation, and learning and adaptation to wicked health challenges.

One size does not fit all: context matters!

The effectiveness of collaboration is contingent upon the context. It depends on contingency factors such as organizational structures, size and performance (Mintzberg, 1989; Kelman and Hong, 2016; Aunger *et al.*, 2021). The ideal configurational model of inter-organizational collaboration in healthcare is yet to be determined, as no existing evidence supports a one-size-fits-all approach. Some configurations of health networks were developed through a transformative process and participatory decision-making, which benefits from bottomup initiatives and long-term ownership of partners.

Bottom-up initiatives are considered to be suited for settings with solid connectivity, shared leadership based on voluntary cooperation and relational coordination with robust interpersonal and inter-organizational trust relationships (Huxham and Macdonald, 1992; Agranoff and Mcguire, 2001; Vangen and Huxham, 2003; Thomson and Perry, 2006). Such dynamics involve processes of power-sharing and equitable workload distribution (Huxham and Macdonald, 1992; Crosby and Bryson, 2010). These also require effective management and visionary distributed leadership combined with power distribution and information sharing, close monitoring, timely issues resolution, performance monitoring and improved communication flows (Kelman *et al.*, 2013; Kelman and Hong, 2016).

However, bottom-up networks have downsides, including insufficient central coordination and slow decision-making due to lengthy consensus-building processes. Our scoping review has shown that lack of central coordination, in line with Nicaise *et al.*, 2021 (Tremblay *et al.*, 2019; Waring and Crompton, 2019; Larsen *et al.*, 2021), can lead to poor effectiveness and over-complex coordination mechanisms and decision processes. Similarly, ambiguity and fragmentation of roles and responsibilities (de Pourcq *et al.*, 2019, de Regge *et al.*, 2019; Cazin *et al.*, 2022; Klinga, 2018; Ovseiko *et al.*, 2014) and the unequal distribution of scarce resources might result in unintended consequences and failure of the implementation of well-designed HN (Bernardo *et al.*, 2012; Lang, 2019; Sus *et al.*, 2019; Tremblay *et al.*, 2019, Tremblay *et al.*, 2021).

Nevertheless, even in highly decentralized HN, the role of a lead healthcare institution with internal legitimacy is crucial in coordinating clinical pathways. This role is often played by teaching university hospitals, such as in oncology networks (de Vries *et al.*, 2019; de Pourcq *et al.*, 2019, de Regge *et al.*, 2019). However, in top-down healthcare networks, overemphasis on traditional hierarchy may hamper relational coordination (Mervyn *et al.*, 2019; Tremblay *et al.*, 2019; Waring and Crompton, 2019; Spitzmueller *et al.*, 2020; Madsen and Burau, 2021) and over complexify regulation procedures, such as in the case of bureaucratic area hospital grouping in France (Klinga, 2018; Hermans *et al.*, 2019; Lang, 2019; Sarcone and Kimmel, 2021; Cazin *et al.*, 2022).

In summary, bottom-up healthcare networks characterized by loose central coordination and strong interconnectivity might be well-suited for complex situations (Snowden and Stanbridge, 2004; Stacey, 2007; Williams and Hummelbrunner, 2010). On the other hand, dominant hierarchical topdown healthcare networks are more suitable for situations with a high degree of stability and centralized healthcare systems. We suggest that a balance between formal topdown structures and organic network committees might prove appropriate. This approach allows for a natural equilibrium between standardization and centralized governance from control agencies and the need for flexibility, adaptability and reinforced collaborative management practices at operational levels.

Finally, research on practical components and determinants of healthcare collaboration is still inconclusive (D'amour *et al.*, 2005; Reeves *et al.*, 2011; Mccovery and Matusitz, 2014; Tippin *et al.*, 2017). Therefore, it is unclear which configurational causation leads to effective collaboration (Lasker *et al.*, 2001). In addition, some interorganizational collaboration might lead to unintended outcomes such as paradoxical fragmentation of care due to a lack of congruence, reduced trust, conflicts and power imbalance between senior and middle-line managers (Lasker *et al.*, 2001; Franco and Duarte, 2012; Nicaise *et al.*, 2013; Spitzmueller *et al.*, 2020; Aunger *et al.*, 2021).

Research gaps

We suggest, in line with other scholars (Sandfort and Milward, 2008; Roehrich *et al.*, 2014; Wang and Ran, 2022) (Bennett *et al.*, 2018), that future research needs to delve into the black box of collaborative dynamics by exploring the role of trust, power dynamics and the part of organizational configurations in the effectiveness and sustainability of collaborative dynamics. Researchers may reflect on theories such as the role agency theory (Donaldson and Davis, 1991), social exchange (Jussila *et al.*, 2012) and resource exchange theories (Brinberg and Wood, 1983).

To understand the intricate, collaborative dynamics in healthcare networks, researchers need to adopt innovative theory-driven approaches such as the realist evaluation (Pawson and Tilley, 1997), qualitative comparative analysis (Rihoux and Ragin, 2008) or inductive approaches such as ethnography (Peterman, 1989) to understand what forms of collaborative networks work, for whom and in what context. Social network analysis (Blanchet and James, 2012) might prove helpful in unravelling the extent and centrality of governing bodies within health networks. Attention must be paid to distributed leadership and formal management practices in hospital networks, particularly in North African countries and the Eastern Mediterranean region, where collaborative governance within healthcare networks is under-explored.

Implications for practice and policy

We urge policymakers to adapt their dominant hierarchical approach in implementing healthcare networks by infusing collaborative dynamics with participatory decision-making processes. This can be done by implementing strategies and steering committees at decentralized administrative territories. Ministries of Health are urged to develop capacitybuilding programmes to enable future HN managers with systemic leadership capabilities to address complex health systems challenges. This can be done through on-site-based training and classroom training in themes such as collaborative leadership, system thinking, financial management, performance monitoring, health policy and power analysis. Policymakers need to invest more in the digitalization of healthcare information systems and fostering their interoperability to allow appropriate knowledge sharing and timely performance monitoring of area HN. This can be accelerated by using artificial intelligence and data analytics.

In the context of North African countries, as shown in other studies (Mate et al., 2017; Belrhiti et al., 2021), health systems are often centralized, with top-down hierarchical decision-making, including healthcare provision. The merger of diverse types of health provider entities (tertiary, secondary hospitals and primary care) may yield tensions and conflicts, cultural divergence and power struggles (e.g. the reluctance of senior managers to cede power to operational entities). In these settings, we highlight, as do previous studies (Lasker et al., 2001; Kavanagh and Ashkanasy, 2006; Turrini et al., 2010; Hunter and Perkins, 2012; Aunger et al., 2021; Gilson et al., 2023), the importance of developing system leaders who can integrate different health and social care institutions with diverse cultures and who can create a supportive environment enabling trust and respect between workforces and leaders.

To better operationalize the results of our scoping review, we developed key lessons and practical recommendations for healthcare managers, as outlined in Table 2.

Limitations and validity of the study

In this scoping review, we made some trade-offs between comprehensiveness, feasibility and depth of the analysis (Arksey and O'Malley, 2005). Thus, some relevant studies may have been missed, including studies addressing the network of primary care, interprofessional collaboration and studies published before 2012 covered by previous reviews (Provan *et al.*, 2007; Aunger *et al.*, 2021). However, it was clear that we had reached theoretical saturation (Booth and Carroll, 2015) during the coding process.

Further, the review did not focus on networks of care that exclusively merge primary care facilities. Future evidence synthesis might address the role of clinical collaboration and networks of primary care facilities, specifically in low- and middle-income countries addressed elsewhere (Carmone *et al.*, 2020).

Most included studies relied on retrospective data, with some exceptions (Klinga, 2018; Tremblay *et al.*, 2019). Thus, caution needs to be exercised in interpreting data related to the effectiveness of HN on overall performance, population health outcomes, financial performance and cost reduction (Bernardo *et al.*, 2012; Chu and Chiang, 2013; Palumbo *et al.*, 2017; Hyrkäs *et al.*, 2020). Indeed, research evidence regarding the effectiveness of the components of HN on population health outcomes is inconclusive (D'amour *et al.*, 2005; Reeves *et al.*, 2011; Mccovery and Matusitz, 2014; Tippin *et al.*, 2017).

The validity of this scoping study stems from its policy relevance—as it was identified through a priority setting exercise with national stakeholders as a knowledge gap. The validity of our findings is also reinforced by the systematic search and data charting processes using the framework synthesis approach (Booth and Carroll, 2015). In addition, the use of a highly cited collaborative governance framework

Table 2. Policy ar	nd practical	implications	of this	scoping review
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Key results	Practical implications for practice and healthcare organizations
Contextual drivers for change	In context where reforms are implemented in top-down fashion, we urge deci- sion makers to foster bottom-up implementation of healthcare networks by embedding them within the decentralized administrative health regions and by promoting the stewardship of the Ministry of Health and multisectoral collab- oration at local levels. This will allow better contextualization of healthcare networks to fit the geographical disparities and the pre-existing decentralization legal frameworks.
Leadership and management as a driver for change	Ministries of Health need to implement capacity-building programmes in the form of on-site training rather than classical classroom training without clear connection with real-world settings. This encompasses learning to action expe- riential learning, on-site workshops and collaborative 'systemic' leadership development programmes etc.
Internal collaborative dynamics	Healthcare managers and officials in charge of the implementation of healthcare networks need to build creative enabling spaces for collaboration between dif- ferent networks partners. This depends on careful selection and recruitment of healthcare leaders with adaptive leadership abilities and on developing procedu- ral arrangements that protect staff and enable a culture of trial and error instead of blame and sanctions.
Collaborative leadership	Ministries of Health need to carefully design the composition of governance bodies of future healthcare networks with sufficient room for incentives for collaboration, teamwork and performance-based contractual arrangements. This will allow the creation of efficient alliances between partners (hospitals and primary healthcare centres) and better implementation of joint collaborative actions. This, in practice, is enabled through appropriate selection of opera- tional leadership actors based on their emotional intelligence, ability to manage power dynamics and inspire trust, and their possession of transformative and distributed leadership abilities.
Collaborative actions, outputs and outcomes	In context where the formation of healthcare networks are mandatory, Ministries of Health need to develop in addition quality assurance projects and accred- itation processes to ensure improved accountability of healthcare networks and their entities. More emphasis needs to be placed on enhancing the trans- parency of the internal rule of procedures, budget allocation and communication channels between network members.
Organizational learning and inter-organizational perfor- mance	Ministries of Health need to transform the process of implementation of health- care networks into action learning projects with systematic documentation of key organizational processes and key performance indicators.
Adaptive outcomes	Ministries of Health and healthcare networks managers might benefit from benchmark trips and workshops to assess inter-organizational innovations implemented in other health regions and to exchange resources across regions, such as through the development of a regional common human resource pool to adapt to increasing changes in medical and nursing density.

reinforced the theoretical replication of collaborative governance theory across different contexts (Yin, 2016). This scoping study has shown the utility of framework synthesis, a highly structured or systematic approach for both organizing and interpreting data in the process of generating and refining theories and in building a common understanding of concept among reviewer teams. Yet as a flexible synthesis approach, it allows iterative cycles of mapping and interpretation of complex interventions (Booth and Carroll, 2015; Flemming *et al.*, 2019; Brunton *et al.*, 2020)—generating emergent themes as in metanarrative reviews and realist synthesis. Finally, the approach facilitates communication of key lessons learnt to stakeholders (Flemming *et al.*, 2019; Brunton *et al.*, 2020).

Conclusion

Coordination of HN is a complex dynamic endeavour that requires new lenses for making sense of inter-organizational collaboration. HN foster horizontal inter-organizational collaboration, promote inter-organizational learning and facilitate patient referral systems. The health policy reforms in low- and middle-income countries might draw on pitfalls of the French model of 'territorial hospital grouping' and avoid over-reliance on top-down policy reforms in Morocco. One size does not fit all. In the context of Morocco, the topdown implementation of health network reforms needs to be balanced by creating a decentralized steering committee to steer future generations of health workers towards the path of sustainable collaborative governance.

Abbreviations

CGR = collaborative governance regime HN = healthcare network

Supplementary data

Supplementary data is available at HEAPOL Journal online.

Funding

No specific funding was received for any part of this scoping review.

Acknowledgements

We acknowledge the contribution of Dr Redouane Belouali Director of the International School of Public Health at the Mohammed VI University of health Sciences for his support to the Knowledge for Policy Centre initiative and the maintaining of engagement of stakeholders during early phases of the project.

Author contributions

Z.B. and S.B. designed the scoping review with inputs from A.L. and D.K. Z.B. carried out the initial searches. Z.B. and S.B. carried out double screening for abstract title screening and completed full-text screening. Z.B., S.B., D.K., A.L. and S.Z. extracted data. All authors participated in the critical analysis and interpretation of the study results.

Z.B. drafted the first version of the scoping review. Z.B., S.B. and M.B. critically revised earlier versions of the manuscript. Z.B. revised the final version. All authors approved the final version of the manuscript.

Reflexivity statement

The article's authors consist of three female and three male researchers, two early career researchers, a senior researcher and two officers from the Ministry of Health. All authors are settled in Morocco. The research team includes academicians and healthcare managers involved in implementing healthcare networks.

Ethical approval. No ethical approval was required for the research as this is a scoping review of literature.

Conflict of interest statement: None declared.

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