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Review

# Moving from Principles to Practice: A scoping Review of Value-Based Healthcare (VBHC) Implementation Strategies

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**Abstract: Background/Objectives:** The principles of value-based Healthcare (VBHC) have received widespread endorsement, leading healthcare organizations worldwide to shift their strategies towards them. However, despite growing recognition and acceptance, the actual implementation of value-based approaches varies widely. This research aims to identify studies that address the implementation of VBHC at different levels (healthcare policymakers, hospital administrators, and healthcare providers), focusing on each level's relative strategies; **Methods:** To this end, a scoping review was conducted in accordance with the PRISMA extension for Scoping Reviews checklist. The electronic databases of Web of Science, PubMed, MEDLINE and Scopus were searched to identify relevant publications in English from January 2006 to 31 July 2023; **Results:** We identified 30 eligible studies. Findings are organized into four main macro strategic levels, each comprising specific dimensions and operational approaches. Fourteen articles analyzed the role of government commitment in VBHC implementation, while six articles focused on regional integrated care systems. The role of hospitals was described in sixteen records; **Conclusions:** Our study suggests that a comprehensive approach is necessary for the successful implementation of VBHC. Hospitals emerge as pivotal in this shift, requiring organizational and attitudinal changes among healthcare professionals. However, a complete transition towards VBHC that ensures a seamless patient management throughout the entire care delivery value chain, necessitates government involvement in terms of state legislation, reimbursement methods, and hospital networking.

**Keywords:** value-based healthcare; hospital management; operational strategies

## 1. Introduction

The escalating concern about the sustainability of healthcare systems, driven by the ever-increasing demand for healthcare services and the challenges posed by resource limitations, has mandated a profound shift in priorities. This calls for innovative approaches to healthcare delivery, as more than mere cost containment is needed to address the mounting pressure on healthcare systems, particularly where costs are not aligned with outcomes [1]. In response, Value-Based Healthcare (VBHC), a model introduced by Porter and Teisberg [2], represents a paradigm shift in healthcare management. Unlike models prioritizing service volume, VBHC is a tool used to enhance health organizations' reorientation towards person-centred care [3]. A patient-centred approach necessitates a departure from the conventional discipline-based organizational model, by aligning hospital activities around the needs of care processes (and patients) [4]. This approach aims to address the needs of each patient holistically, ensuring seamless coordination and continuity of care throughout their entire treatment journey. Since their introduction, the principles underlying VBHC have proven to be compelling and widely embraced by academics and professionals alike, to the extent that healthcare organizations in various countries are adjusting their strategies toward VBHC

[5]. However, proposals for healthcare improvement have typically focused only on changes to individual system components, thereby diverting attention from the overarching goal: improving patient care [6]. In their scoping review, Van Staalduinen et al. [5] observed that hospitals tend to implement only one or two components of VBHC rather than adopting it as an integrative management strategy. However, an effective transition to value-based care models necessitates a more strategic and coordinated approach. Indeed, although hospitals are at the core of this change, VBHC is a complex concept, and its implementation necessitates a range of actions and practices across multiple domains within the healthcare system, extending beyond the hospital's boundaries [7–9]. Larson et al. [10] emphasize that a VBHC system requires the development of a governance and regulatory context. This necessitates the development of coordinated public policies, regulations, and shared infrastructure to encourage multi-stakeholder cooperation and value-based innovation across all healthcare sectors [10]. However, while existing literature primarily concerns providing guidelines for implementing value-based care in hospital settings [5,11,12], limited research has explored how to create such comprehensive and multilevel strategies for implementing VBHC, which are necessary to implement the principles underlying this theory. Within this context, this study attempts to take a step forward. We aim to conduct a scoping review to identify studies that address the implementation of VBHC at different levels (healthcare policymakers, hospital management, and healthcare providers), focusing on each level's relative strategy. This review addresses the following research questions: How can healthcare systems effectively transition to VBHC through strategic engagement, governance, and integrated care models at both system and hospital levels? What managerial strategies should hospitals consider when transitioning to VBHC? These questions will guide our analysis and provide insights into the strategies for transitioning to VBHC.

## 2. Materials and Methods

We conducted and reported a scoping review in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) checklist [13] (*online supplemental file 1*). No published protocol is available for this scoping review. This scoping review was conducted using Arksey and O'Malley's methodological framework [14], which consists of five stages: identifying the research question, identifying relevant studies, study selection, charting the data, collating, summarizing, and reporting the results. The decision to conduct a scoping review, instead of a systematic review, was made to identify the various types of evidence related to the implementation strategies of VBHC theory. To attain this objective, it is imperative to analyze papers that employ a range of diverse methodologies [15].

### 2.1. Search Strategy

The electronic databases of Web of Science, PubMed, MEDLINE and Scopus, and the following keywords and synonyms, linked by Boolean operators, were used: "value-based care", "VBHC", "value-based", "policy", "strategy", "intervention", "organizational change", "change management", "redesign", "transformation", "implementation". Search strategies for the four scientific electronic databases are provided in the *online supplemental file 2*. The investigation was conducted in September 2023 and the articles retrieved were screened according to the inclusion/exclusion criteria previously stated and listed in the following paragraph.

### 2.2. Study Eligibility

The inclusion criteria for this study encompassed both qualitative and quantitative studies published in English from January 2006, when Porter and Teisberg coined VBHC, to 31 July 2023 that describe the implementation of VBHC in a hospital setting or healthcare system, provided they adhered to the following predefined criteria:

- They examined how government policies, network structures, and regulatory frameworks can support the transition to VBHC.
- They focused on hospital management strategies before implementation and throughout the process of adopting and sustaining VBHC practices.  
We have excluded studies:
- Solely focusing on implementing individual components of VBHC.

- Describing different methodologies for designing and implementing bundled payments/value-based repayment program reimbursement.
- Reporting the evolution of VBHC theory.
- Not reporting on any managerial implementation strategies of VBHC theory.

### *2.3. Study Selection*

The identified articles were uploaded to the Rayyan website for deduplication and screening. Two reviewers (dME and CA) independently assessed titles and abstracts for eligibility, resolving discrepancies through reviewers' discussion or consulting a third party (DM). Articles meeting eligibility criteria underwent full-text review and data extraction. To ensure comprehensive coverage, reviewers also checked reference lists of included studies.

Additionally, reference lists were manually checked and searched for additional relevant publications. An Excel list containing potentially eligible documents was created, and subsequently, the full texts of these documents were independently assessed by two researchers (dME and DM) against our inclusion criteria.

### *2.4. Quality Appraisal*

Based on the current methodological guidelines for scoping studies [15] [13], no Critical Appraisal of the strength and quality of the included papers was performed.

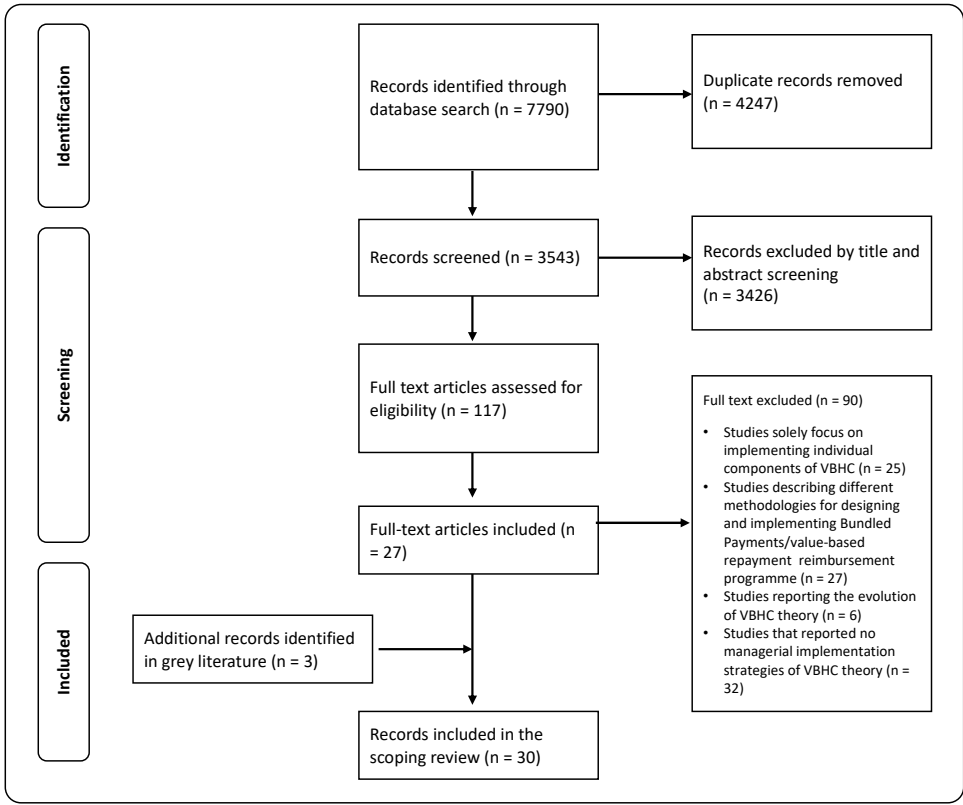
### *2.5. Data Extraction, Analysis and Reporting*

From the included studies, two reviewers (dME, DM) extracted the following information on a dedicated data extraction form built with Excel:

1. Study identification (first author, title, publication year).
2. Study characteristics (country, study design).
3. Level of analysis (system level, hospital level).
4. Disease area (if relevant).
5. Dimensions analyzed.
6. Barriers and/or success factors.

## **3. Results**

The screening and study selection is presented in Figure 1. The scientific and grey literature search produced 7790 records, which were then screened for duplicates, resulting in 3543 eligible records for title/abstract screening. Following this, the full text of 117 articles was carefully reviewed. Ultimately, 30 articles were included in the scoping review, consisting of a systematic literature review study (n= 1), a scoping review (n= 1), qualitative studies (n= 5), case studies (n= 12), mixed (explorative and qualitative) studies design (n= 3), a conceptual framework and case examples (n= 1), an observational cohort study design (n= 1), a comparative multiple case study (n= 2), explorative design studies (n= 3), and a descriptive qualitative study (n= 1). The articles selected for this research were published between 2013 and 2023 and originated from three countries, namely the Netherlands (n=12), the United States (n=9), and Sweden (n=5).



**Figure 1.** Flow chart of the selection and screening process in the scoping review.

*Literature Synthesis*

The data extraction is shown in Table 1. Subsequently, the data extraction results were translated into a framework (Table 2). This framework serves as a comprehensive roadmap to guide policymakers, healthcare providers and hospital managers during their transition toward VBHC. It comprises four strategic levels: government commitment in policy definition, Organizational Vision and cultural integration, Operational Excellence, and VBHC assessment. Each strategic level is associated with specific dimensions and operational strategies that should be implemented.



**Table 1.** Synthesis of the results.

FIRST AUTHOR	TITLE	YEAR	COUNTRY	STUDY DESIGN	LEVEL OF ANALYSIS	MAIN DIMENSIONS ANALYZED	BARRIERS	SUCCESS FACTORS
Sze May Ng [16]	A qualitative study on relationships and perceptions between managers and clinicians and its effect on value-based healthcare within the national health service in the UK	2022	UK	A qualitative study	Hospital level	Vision and strategy Teamwork and interprofessional relationship	There was often mistrust between clinicians and managers, with both being dismissive of each other's work.	Strong clinical leadership and medical engagement at all levels.  Developed cultures where managers and clinicians are motivated and supported to work in partnerships.
Douglas Conrad [17]	A Report On Eight Early-Stage State And Regional Projects Testing Value-Based Payment	2013	US	A case study design	Government commitment	Value-based payment (VBP)	It requires time and resources, in addition to culture change.	State legislation can galvanize regional and state payment reform initiatives.  Previous experience in the development, implementation, and evaluation of VBP models
Eline F de Vries [18]	Barriers to payment reform: Experiences from nine Dutch population health management sites	2019	Netherlands	A qualitative study	Government commitment	Value-based payment (VBP)	Information asymmetry as barrier towards payment reform.  Hesitation to accept greater financial accountability.	//
Robert A. Phillips [19]	Creating and Maintaining a Successful Service Line in an Academic Medical Center at the Dawn of Value-Based Care: Lessons Learned From the Heart and Vascular Service Line at UMass Memorial Health Care	2015	US	A case study design	Hospital level	Teamwork and interprofessional relationship	The traditional departmental structure made difficult to fully shift towards disease-oriented organization.	Dedicated leadership with accountability and responsibility for budget.
Elizabeth A. Griffiths [20]	Demonstrating proof of concept for value-based agreements in Europe: two real-world cases	2023	UK	A case study design	Government commitment	Value-based agreements (VBAs)	The limited experience of both parties in working together on VBAs.  It took time to develop a dialogue between the relevant stakeholders and to determine partners willing to collaborate on scheme design.	Engagement of core stakeholders (payers, manufacturers, and physicians) was critical.
Douglas Conrad [21]	Emerging Lessons From Regional and State Innovation in Value-Based Payment Reform: Balancing Collaboration and Disruptive Innovation	2014	UK	A qualitative study	Government commitment	Value-based payment (VBP) Development and implementation health IT infrastructure	The prevalence of disparate EHR systems that are not interoperable or cannot adapt to one another.	Previous experience in the development, implementation, and evaluation of VBP models.  Pressure from policymakers, regulators, and organized public and private purchasers.
Kerstin Nilsson [22]	Experiences from implementing valuebased healthcare at a Swedish University Hospital – a longitudinal interview study	2017	Sweden	A mixed (explorative and qualitative) design	Hospital level	Anchoring the new approach in the hospital organizational culture  Cost measurement	The traditional departmental structure made difficult to fully shift towards disease-oriented organization.  Measure costs was particularly difficult to establish as the hospital accounting system only allowed data capture on an aggregated level.	Leadership skills such as communication and motivation to get people involved step by step in developing the process.
Diogo LL Leao [23]	Facilitating and Inhibiting Factors in the Design, Implementation, and Applicability of Value-Based Payment Models: A Systematic Literature Review	2023	Netherlands	A Systematic Literature Review	Government commitment	Value-based payment (VBP)	It requires time and resources.	Previous experience in the development, implementation, and evaluation of VBP models.  High motivation, engagement, and trust among involved stakeholders.  Transparency and communication among involved stakeholders.
Kirsten Daniels [24]	Five years' experience with value-based quality improvement teams: the key factors to a successful implementation in hospital care	2022	Netherlands	A qualitative study	Hospital level	Vision and strategy Teamwork and interprofessional relationship  Cost measurement	The traditional departmental structure made difficult to fully shift towards disease-oriented organization.  Hospital care is still paid according to pay-for-volume contracts, and budget responsibility still lies with the traditional functional departments.	To have one team that addresses all quality-improvement related topics.

FIRST AUTHOR	TITLE	YEAR	COUNTRY	STUDY DESIGN	LEVEL OF ANALYSIS	MAIN DIMENSIONS ANALYZED	BARRIERS	SUCCESS FACTORS
Luc Theunissen [25]	Implementing Value-Based Health Care Principles in the Full Cycle of Care: The Pragmatic Evolution of the Netherlands Heart Network	2023	Netherlands	A case study design	Regional integrated care system	Teamwork and interprofessional relationship Cost measurement	The traditional departmental structure made difficult to fully shift towards disease-oriented organization. Hospital care is still paid according to pay-for-volume contracts, and budget responsibility still lies with the traditional functional departments.	Platform where organizations can connect to share data and best practices.
Douglas Conrad [26]	Implementing Value-Based Payment Reform: A Conceptual Framework and Case Examples	2015	US	A Conceptual Framework and Case Examples	Government commitment	Value-based payment (VBP)	//	Clear and consistent communication about movement toward larger reforms.
Dennis van Veghel [27]	Improving clinical outcomes and patient satisfaction among patients with coronary artery disease: an example of enhancing regional integration between a cardiac centre and a referring hospital	2020	Netherlands	An observational cohort study design	Regional integrated care system	Integrated care	//	Trust and cooperation with other institutes.
P. B. van der Nat [28]	Insights on value-based healthcare implementation from Dutch heart care	2020	Netherlands	A case study design	Regional integrated care system	Integrated care	//	Trust and cooperation with other institutes. Platform where organizations can connect to share data and best practices.
H. P. A. van Veghel [29]	Introducing a method for implementing value based health care principles in the full cycle of care: Using atrial fibrillation as a proof of concept	2020	Netherlands	A case study design	Regional integrated care system	Integrated care	//	Platform where organizations can connect to share data and best practices.
Pedro Ramos [9]	It takes two to dance the VBHC tango: A multiple case study of the adoption of value-based strategies in Sweden and Brazil	2021	Sweden & Brasil	A comparative multiple case study	Hospital level	Teamwork and interprofessional relationship Cost measurement	The traditional departmental structure made difficult to fully shift towards disease-oriented organization. Financing of care was not aligned with the care production and outcomes monitoring.	The involvement of clinical staff was a crucial factor.
Dane Lansdaal [30]	Lessons learned on the experienced facilitators and barriers of implementing a tailored VBHC model in a Dutch university hospital from a perspective of physicians and nurses	2021	Netherlands	A descriptive qualitative study	Hospital level	Vision and strategy Support of information technology	The usage of the EHR in daily practice.	Continued recognition of the usefulness of the VBHC implementation.
Dennis van Veghel [31]	Organization of outcome-based quality improvement in Dutch heart centres	2020	Netherlands	A mixed-method approach	Regional integrated care system	Quality improvement initiatives (QI)	Insufficient data infrastructure for successful outcome-based quality improvement.	//
Gijs Steinmann [11]	Redesigning value-based hospital structures: a qualitative study on value-based health care in the Netherlands	2022	Netherlands	A qualitative exploratory study	Hospital level	Teamwork and interprofessional relationship Cost measurement	The traditional departmental structure made difficult to fully shift towards disease-oriented organization. Measuring costs was particularly difficult as the hospital accounting system only allowed data collection on an aggregated level.	To have multiple leaders, each representing a particular organizational component.
Kissam SM [32]	States Encouraging Value-Based Payment: Lessons From CMS's State Innovation Models Initiative	2019	US	A qualitative study	Government commitment	Value-based payment (VBP)	Lack of multipayer alignment around VBP models. Restrictions on the ability to share patient data across all care providers	//
J. Seth Chatfield [33]	Ten CEO Imperatives for Healthcare Transformation: Lessons From Top-Performing Academic Medical Centers	2017	US	A mixed-method approach	Hospital level	Vision and strategy Anchoring the new approach in the hospital organizational culture	//	To have a common shared vision and align goals at all the levels with that vision. Effective communication.
Nina Zipfel [34]	The implementation of change model adds value to value-based healthcare: a qualitative study	2019	Netherlands	A case study design	Hospital level	Vision and strategy Anchoring the new approach in the hospital organizational culture	An implementation approach was lacking to guide improvement interventions.	Multi-stakeholders' involvement in the design of the intervention played an important role in the success of the implementation.
Dorine J. van Staalduijn [5]	The implementation of value-based healthcare: a scoping review	2022	Netherlands	A scoping review	Hospital level	Anchoring the new approach in the hospital organizational culture	//	Creating and enhancing leadership was also considered essential in transforming to VBHC.

FIRST AUTHOR	TITLE	YEAR	COUNTRY	STUDY DESIGN	LEVEL OF ANALYSIS	MAIN DIMENSIONS ANALYZED	BARRIERS	SUCCESS FACTORS
Kerstin Nilsson [35]	The need to succeed – learning experiences resulting from the implementation of value-based healthcare	2018	Sweden	An explorative design	Hospital level	Vision and strategy Cost measurement	Measuring costs was particularly difficult as the hospital accounting system only allowed data collection on an aggregated level.	The importance of planning and preparation before starting the implementation process.
Geralyn Randazzo [36]	Transitioning From Volume to Value. A Strategic Approach to Design and Implementation	2016	US	A case study design	Regional integrated care system	Integrated care Support of information technology	//	Platform where organizations can connect to share data and best practices. The Care Navigator role to assist the patients during their transition from the inpatient setting back to the community.
Giulia Goretti [37]	Value-Based Healthcare and Enhanced Recovery After Surgery Implementation in a High-Volume Bariatric Center in Italy	2020	Italy	A case study design	Hospital level	Teamwork and interprofessional relationship	//	Engaging patients and their representatives during the implementation work.
Kerstin Nilsson [38]	Value-based healthcare as a trigger for improvement initiatives	2017	Sweden	An explorative design study	Hospital level	Teamwork and interprofessional relationship	//	To create an open and trusting communication environment to succeed with developing processes.
Christian Collén [39]	Value-based healthcare translated: a complementary view of implementation	2018	Sweden	A case study design	Hospital level	Support of information technology	The lack of IT systems supporting VBHC.	//
Chancellor F. Gray [40]	Value-based Healthcare: "physician Activation": Healthcare Transformation Requires Physician Engagement and Leadership	2020	US		Hospital level	Teamwork and interprofessional relationship	Communication barriers between the physician and nonphysician health system leaders.	//
Aakash Keswani [41]	Value-based Healthcare: Part 1-Designing and Implementing Integrated Practice Units for the Management of Musculoskeletal Disease	2016	US	A case study design	Hospital level	Teamwork and interprofessional relationship	//	Engaging and activating patients throughout the care cycle, incorporating patients' goals and preferences in treatment decisions (via SDM). Strong clinical leadership to promote teamwork, collaboration and joint accountability for patient outcomes and overall cost of care.
Joon Hurh [42]	Value-based healthcare: prerequisites and suggestions for full-fledged implementation in the Republic of Korea	2017	Republic of Korea	A case study design	Government commitment	Value-based payment (VBP)	//	Commitment and support from healthcare providers by normalizing payment rates for healthcare providers.



Table 2. VBHC Implementation: Strategy and Operational Dimensions.

Strategic level	Dimension	Operational strategies	References
Government commitment in policies definition	Value-based payment (VBP)	Providing more guidance or assistance in payment reforms through a long-term vision with information on the implementation and potential impact of payment reforms.	[18,20,24,26]
		Creating a sense of urgency for implementing payment reforms.	[18,21,23,26,42]
		Defining national or local legislation.	[17,21,23,42]
		Involving key stakeholders in the change process and implementation of the models.	[17,23]
	Value-based agreements (VBAs)	Allocating significant resources toward payment and delivery system innovations.	[21]
		Legal/regulatory policies permitting innovative contracting (e.g., net price confidentiality).	[20]
		Policy supporting appropriate data capture and use to support contracting.	[20]
		Collaborating and engaging with the medical device industry.	[42]
Organizational Vision and Cultural Integration	Vision, strategy and governance structures	Having an official commitment to value-based redesign from the higher levels of the organization.	[11,16,24,30,34,35,38]
		Embedding the adoption of the VBHC concept in the hospital strategy, policy documents, and planning and control.	[19,33]
		Providing formal responsibility and mandate to a steering group with hospital representatives for the implementation of VBHC.	[5,16,19,24,25,27,29–31,33–35,39]
		Empowerment of service line leadership with direct accountability and authority over programs and budgets.	[19,33]
		Developing a tailored business plan to provide a structured process clear, goal-oriented and adaptable to each situation.	[9,24,33,34,39]
		Being supported by consultancies.	[5,22,34,35,39]
		Starting with "experiments" and "pilots".	[11,22,25,34,39]
		Planning and preparation before starting the implementation process.	[35,38,39]
	Anchoring the new approach to the hospital organizational culture	Staff training and education on the VBHC concept.	[5,11,19,24,31,33,35,36]
		Improving communication and information with staff about the change.	[5,22,25,33,35–37]
		Providing time for healthcare professionals to work on the project and anchoring changes to their daily work.	[22,24,30,34,35]
		Continued recognition of the usefulness of the VBHC implementation.	[30,35,38]
		Starting with positive results.	[22,24,30,34]
		Motivating people to get them involved step by step in developing the process.	[11,22,33]
		Involving patients and their representatives in the implementation process.	[9,24,30,35,37,39,41]
Operational excellence	Standardize care pathways	Defining transmurals care standard.	[9,26,27,29]
		Hiring additional staff dedicated to care coordination to connect the territory and the hospital.	[17,26,32,36]
		Participating in peer-to-peer learning collaboratives on implementing new delivery models or enhancing care coordination.	[32]
		Planning and attendance of periodical networking meetings.	[26,29]
		Defining and optimizing Critical Pathways (CPs).	[9,11,26,27,37,41]
		Using liaison positions (such as "intermediary managers") to enhance coordination between functional units.	[5,9,11,36,38]
	Developing multidisciplinary teams	Applying the lean-methodology.	[24]
		Engaging all professionals involved in the different levels of one patient's care	[9,19,34,38,41]
		Planning and attendance of regularly institutionalized meetings ("standing committees").	[5,11,24]
		Sharing workspace.	[24]
	IT support	Creating multidisciplinary meetings to discuss complex patients.	[9,27]
		Setting up innovative data sharing mechanisms to provide real time data to providers.	[17,18,20,21,26,42]
VBHC assessment	Clinical Outcome measurement	Setting up care and information technology platforms to facilitate both patients and healthcare professionals.	[22,24,35,36]
		Creating dashboards containing outcome measurements, PROMS/PREMS and costs.	[12, 29, 31]
		Availability of additional support staff (data analysts/project leaders/care managers).	[9,24,35]
	Patient-reported measures	Identifying and collecting relevant clinical outcome measurements.	[9,11,22,24,26–31,33,35–37,39,40]
		Mapping the care processes for each respective group of patients.	[22,39]
		Benchmarking outcome data among hospitals.	[11,24,28,31,39]
		Obtaining, processing, and dispersing data in a time-efficient manner for internal reflection.	[11,28,30,31,33,40,41]
	Costs measurement	Explaining the clinical outcome measurements more pedagogically.	[43]
		Simplifying PowerPoint presentations of outcomes measured.	[43]
		Collecting data regarding patient reported measures (PROMS e PREMs).	[24,26,27,30,37,40]
		Measuring costs based on actual resource use over the full cycle of care for the patient's condition.	
	Audit & Feedback (A&F)	Performing "Audit and Feedback" (A&F).	[27,29]

4.1. Government Commitment in Policies Definition

Eight articles [17,18,20,21,23,26,32,42] described the role of government commitment in implementing the principles of the VBHC model, especially during the introduction of value-based payment reforms. These studies have identified several operational strategies. Four studies [17,21,23,42] suggested establishing state legislation to encourage state and regional initiatives for VBHC, involving key stakeholders (such as policy makers, government agencies, public and private healthcare providers, patients private organizations) in this change process [17,23]. Four studies [18,20,24,26] suggested that the government may need to provide further guidance or assistance for payment reform, adopt a long-term vision, provide information on implementation and the potential impact of payment reforms, as well as create a sense of urgency for the change [18,21,23,26,42]. Lastly, other studies have recommended allocating significant resources (financial/human resources) to support the transition, including external resources (e.g., grants) [21]. Regarding value-based agreements (VBAs), adopting legal and regulatory policies that enable innovative contracting, such as net price confidentiality, was recommended [20]. Policies that facilitate acquiring and using

appropriate data to support contracting have also been suggested [20]. Finally, collaboration and engagement with the medical device industry is believed to be beneficial [42].

#### *4.2. Organizational Vision and Cultural Integration*

In the hospital setting, the need for an official commitment to value-based redesign from higher organizational levels was emphasized in seven studies [11,16,24,30,34,35,38]. This is consistent with the findings of other two included studies [19,33] suggesting that it is important to incorporate the implementation of the VBHC concept into hospital strategy, policy documents, planning, and control. Several papers suggested to attribute formal responsibility and mandate upon a steering group with hospital representatives for the implementation of VBHC [5,16,19,24,25,27,29–31,33–35,39]. Other studies suggested to empower service line leadership with direct accountability and authority over programs and budgets [19,33]. Another frequently employed operational strategy entails developing tailored business plans to provide a structured, clear and goal-oriented process, adaptable to each situation [9,24,33,34,39]. Furthermore, starting with "experiments", "pilots" [11,22,25,34,39], planning and preparation before beginning the implementation process [35,38,39] was also regarded as essential in transforming to VBHC. Five studies [5,22,34,35,39] described the support from consultancy since the early stages of the transition process as a success factor.

Once the vision and strategy are defined, the principles of VBHC need to be anchored in the hospital's organizational culture. To achieve this, various operational strategies have been proposed in the literature. One commonly cited was the education and training of clinical staff about the VBHC concept [5,11,19,24,31,33,35,36], to improve communication and information sharing with staff regarding the change [5,22,25,33,35–37], to entail time for healthcare professionals to work on the project and anchor changes in their daily work [22,24,30,34,35]. Some studies underscored the importance of continued recognition of the usefulness of VBHC implementation [30,35,38], with initial positive results [22,24,30,34], and the motivation of individuals to get involved at each step of the developmental process [11,22,33]. Establishing and maintaining a positive atmosphere [33,34,38], trust building, and pursuing a common goal [16,33] were proposed multiple times. Finally, seven studies suggested to involve patients and their representatives in the implementation process [9,24,30,35,37,39,41].

#### *4.3. Operational Excellence*

To improve regional networking models and promote cooperation between hospital and local communities, four studies [9,26,27,29] stressed the importance of establishing transmurial care standards. The term "transmurial care standard" refers to a healthcare approach that integrates various care settings to ensure seamless patient management throughout the entire care delivery value chain. At the same time, four studies [17,26,32,36] highlighted the value of hiring additional staff dedicated to care coordination (such as nurses, navigators and community health workers) to expand care teams in the hospital setting. Participating in peer-to-peer learning collaboration on implementing new delivery models or enhancing care coordination [32], planning and attending periodic networking meetings [26,29] were other strategies mentioned. In the hospital setting, process optimization and coordination can be achieved through the definition and optimization of Critical Pathways (CPs) [9,11,26,27,37,41], the utilization of liaison positions (such as 'intermediary managers') to enhance coordination between functional units [5,9,11,36,38] and the application of a lean methodology [24]. Regarding developing a multidisciplinary team, the following strategies were identified as effective means in the included studies in this study: engaging all professionals involved in the care of the same patient at different levels [9,19,34,38,41], planning and attending regular institutionalized meetings ('standing committees')[5,11,24], sharing workspace [24], and creating multidisciplinary meetings to discuss complex patients [9,27]. The terms "standing committees" referring to institutionalized meetings that take place regularly and enable interunit communication [11]. To improve the data collection throughout patients' clinical pathways and to support clinical decision making, six studies recommended to setup innovative data-sharing mechanisms to provide real-time data to providers [17,18,20,21,26,42], or/and a care and information technology platform with the objective of facilitating communication between patients and healthcare professionals [22,24,35,36]. Furthermore, three articles recommended the creation of dashboards containing outcome measurements, PROMS/PREMS, and costs [12, 29, 31]. Finally, other

articles emphasized the need for additional support staff such as data analysts, project leaders, and care managers [9,24,35] to assist the healthcare workforce.

#### 4.4. VBHC Assessment

Seventeen studies described clinical outcome measurements [9,11,22,24,26–31,33,35–37,39–41] as crucial component of VBHC. The main operational strategies employed to measure clinical outcomes include the identification and collection of relevant clinical outcome measurements [9,11,22,24,26–31,33,35–37,39,40], the mapping of the care processes for each respective group of patients [22,39], and the acquisition, processing, and dissemination of data in a time-efficient manner for internal reflection [11,28,30,31,33,40,41]. In order to enhance their comprehension from a clinical standpoint, two additional operational strategies were proposed in one included article. These strategies involve elucidating the rationale behind clinical outcome measurements in a more pedagogical manner and simplifying PowerPoint presentations of measured outcomes [43]. Additionally, the articles highlighted the importance of benchmarking outcome data between hospitals [11,24,28,31,39]. In addition to clinical outcome measurements, the collection of data on patient-reported measures (PREMs and PROMs) [24,26,27,30,37,40], the measurement of costs, and the implementation of 'Audit and Feedback' (A&F) mechanism [27,29] were reported as part of the VBHC components.

## 4. Discussion

Our study aimed to conduct a scoping review to identify studies that address the implementation of VBHC at different levels (hospital and system variables), focusing on each relative defined strategy. This comprehensive perspective emphasizes the importance of multilevel strategies and stakeholder engagement, which provides a more systemic view of VBHC implementation beyond the single hospital focus. Findings are organized into four strategic levels, namely, Government commitment in policy definition, Organizational Vision and cultural integration, Operational Excellence, and VBHC assessment. Each strategic level is associated with specific dimensions and operational strategies that should be implemented.

Our results highlight how critical government involvement is in promoting and implementing VBHC. The studies reviewed have demonstrated various combinations of state legislation and reimbursement strategies. However, almost all have underscored three fundamental aspects: the importance of strong governmental leadership, enhancing cooperation among key stakeholders involved in the healthcare delivery process, and the development of IT platforms to support service delivery and payment models. De Vries E.F. et al. [18] and Kissam SM et al. [32] emphasize the role of strong governmental leadership in stimulating value-based payment reform. This can be achieved by providing a long-term vision, supporting knowledge development, and creating a sense of urgency for implementing payment reforms. In this context, establishing state/regional legislation to encourage VBHC initiatives needs to be considered [17,21,23,42]. Only a few countries have regulated this matter recently, with the United States (US) being one of the most notable examples. The Medicare Shared Savings Program, established by the Affordable Care Act in the US, promotes the formation of Accountable Care Organizations (ACOs) and several types of bundled payment models as part of public health system reform [44]. In the Netherlands, the extent of the government's intervention to accelerate reform is unclear, as its role in payment reform is less defined [18] [45]. Douglas C. et al. [17] reported that shifting towards value-based payments requires extensive cooperation among private healthcare plans, providers, purchasers, and public programs. However, this demands time and resources.

In the context of hospital organizations, our study indicates that it would be beneficial for the higher organizational levels to make official commitments to value-based redesign. Daniels et al. [24] suggested that a more formal commitment is needed to move the organization towards VBHC, and that implementation will only be successful if it is embedded in hospital strategy, policy documents and planning and control. Preliminary experiments, pilot testing [11,22,26,34,39] and adequate planning and preparation before implementation [35,38,39] are also highly advisable. In their study, Zipfel et al. [34] identified personal and professional involvement in the design of the intervention as an important role in successful implementation, as well as clinical leadership and a positive climate.

As mentioned before, VBHC models represent a paradigm shift in healthcare management. In the hospital setting, two distinct approaches to reshaping hospital organizational design for

implementing VBHC principles from the papers included: one more incremental and the other more radical. As described by Steinmann et al. [11], the incremental hospital redesign approach employs linking mechanisms, such as middle managers and regular meetings of multidisciplinary teams, to facilitate coordination while preserving the original functional units. On the other hand, the radical approach was described by Ramos et al. [9] in which the traditional medical organization was replaced by a matrix organizational structure with vertical functions and horizontal medical themes, allowing patient flows to cross departmental boundaries. However, as reported in several studies, this shift from a traditional departmental structure to a disease-oriented organization is not a foregone conclusion. Several strategies that could overcome this gap emerged from our study [19] [22] [24] [25] [9] [11], ranging from the definition of Critical Pathways, to anchoring the VBHC principles in the hospital's organizational culture through various initiatives, to planning regular institutionalized meetings ('standing committees').

However, in today's healthcare environment, the vision is limited to considering the patients' care as exclusively hospital-based. This calls for the development of integrated care models, which involve efforts to coordinate and join fragmented and disjointed healthcare providers [46]. Van Veghel H. P. A. et al. [29] stressed the importance of defining transmural care standards within the context of a Dutch regional networking to provide patients with care tailored to their individual needs. Our results suggest that cooperation can be enhanced by equipping healthcare providers with advanced health information technology (IT) systems and dashboard to capture the state of a patient across time and then sharing this information with various stakeholders who interact with the patient at different level. However, as highlighted by several articles in our review [17,21,22,31,39], many healthcare providers lack the necessary IT support. This structural deficit can hinder achieving another important goal of VBHC, which is to measure outcomes and costs for each patient [2,3,7]. This led us to the fourth level of our analysis, known as "VBHC assessment". This section covers all the main approaches and resources needed to improve the quality of care according to the VBHC theory. The most commonly cited dimension is the "identification and collection of relevant clinical outcome measures" [9,11,22,24,26–31,33,35–37,39–41]. However, only few papers have methodologically described the methods used to make this a routine part of hospital practice. The same applies to the "collection of patient-reported measures (PREMs and PROMs)". With regard to cost measurement, although Time-Driven Activity-Based Costing (TDABC) is the predominant choice for cost accounting in this context [47,48], its practical adoption in hospitals proves to be extremely challenging. Numerous studies highlight how measuring costs was particularly difficult to establish as the hospital accounting system only allowed data capture on an aggregated level [11,22]. Additionally, hospital care is still paid according to pay-for-volume contracts, and budget responsibility still lies with the traditional functional departments [9,24,25,35].

Our findings should be interpreted in the light of some limitations. Firstly, scoping reviews, though, come with their own limitations. They typically don't assess the quality of the included studies as rigorously as systematic reviews do [15] [13]. This can affect the reliability and validity of the findings, as lower-quality studies might be included without proper scrutiny. Additionally, scoping reviews may not always provide a comprehensive analysis of the evidence due to their broader focus on identifying and mapping existing literature rather than synthesizing findings in depth [15]. Secondly, another limitation of this study is related to the eligibility criteria. Although payment models are a cornerstone of VBHC, papers describing different methodologies for designing and implementing value-based payments (VBPs) were not included because it is impractical to develop a uniform and scalable strategy globally, given the diversity of healthcare systems in different countries. Thus, we have focused on papers that examine governmental role as an active participant in this transition process. We decided to exclude from our review all articles describing the implementation of VBHC methodologies, such as the collection of Patient-Reported Experience Measures (PREMs) and Patient-Reported Outcome Measures (PROMs), or the adoption of TDABC, if such applications were related to isolated case studies and not integrated into daily hospital practice. Lastly, we only included articles written in English, which may have introduced a country bias.

## 5. Conclusions



The study underscored the necessity of a comprehensive approach to successfully implement VBHC. While hospitals are recognized as key players in this transition, requiring organizational and attitudinal changes among healthcare professionals, a complete shift to VBHC necessitates government involvement in state legislation, reimbursement strategies, and hospital networking to ensure seamless patient management throughout the entire care delivery value chain. Furthermore, the review highlighted the limited number of studies that evaluate the role of state committees in VBHC implementation, indicating a need for a more comprehensive examination of the state's role in implementing VBHC.

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## Appendix A

Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist.

## Appendix B

Research strategy.

## References

1. Larsson, S.; Lawyer, P.; Silverstein, M.B. From Concept to Reality: Putting Value-Based Health Care into Practice in Sweden. 2010, Boston Consulting Group.
2. Porter ME; Teisberg EO Redefining Health Care: Creating Value-Based Competition on Results; Boston: Harvard Business School Press; 2006;
3. Porter, M.E. Value-Based Health Care Delivery. *Annals of Surgery* 2008, 248, 503–509, doi:10.1097/SLA.0b013e31818a43af.
4. Lega, F.; De Pietro, C. Converging Patterns in Hospital Organization: Beyond the Professional Bureaucracy. *Health Policy* 2005, 74, 261–281, doi:10.1016/j.healthpol.2005.01.010.
5. van Staalduinen, D.; van den Bekerom, P.; Groeneveld, S.; Kidanemariam, M.; Stiggelbout, A.; Van den Akker-van Marle, M. The Implementation of Value-Based Healthcare: A Scoping Review. *BMC HEALTH SERVICES RESEARCH* 2022, 22, doi:10.1186/s12913-022-07489-2.
6. Plsek, P.E.; Greenhalgh, T. The Challenge of Complexity in Health Care. *BMJ* 2001, 323, 625–628.
7. Porter, M.; Lee, T. The Strategy That Will Fix Health Care. *HARVARD BUSINESS REVIEW* 2013, 91, 50–70.
8. Krebs, F.; Engel, S.; Vennedey, V.; Alayli, A.; Simic, D.; Pfaff, H.; Stock, S.; Cologne Res & Dev Network CoRe Net Transforming Health Care Delivery towards Value-Based Health Care in Germany: A Delphi Survey among Stakeholders. *HEALTHCARE* 2023, 11, doi:10.3390/healthcare11081187.
9. Ramos, P.; Savage, C.; Thor, J.; Atun, R.; Carlsson, K.; Makdisse, M.; Neto, M.; Klajner, S.; Parini, P.; Mazzocato, P. It Takes Two to Dance the VBHC Tango: A Multiple Case Study of the Adoption of Value-Based Strategies in Sweden and Brazil. *SOCIAL SCIENCE & MEDICINE* 2021, 282, doi:10.1016/j.socscimed.2021.114145.
10. Larsson, S.; Clawson, J.; Howard, R. Value-Based Health Care at an Inflection Point: A Global Agenda for the Next Decade. *Catalyst non-issue content* 2023, 4, doi:10.1056/CAT.22.0332.
11. Steinmann, G.; Daniels, K.; Mieris, F.; Delnoij, D.; van de Bovenkamp, H.; van Der Nat, P. Redesigning Value-Based Hospital Structures: A Qualitative Study on Value-Based Health Care in the Netherlands. *BMC HEALTH SERVICES RESEARCH* 2022, 22, doi:10.1186/s12913-022-08564-4.
12. Cossio-Gil, Y.; Omara, M.; Watson, C.; Casey, J.; Chakhunashvili, A.; Gutiérrez-San Miguel, M.; Kahlem, P.; Keuchkerian, S.; Kirchberger, V.; Luce-Garnier, V.; et al. The Roadmap for Implementing Value-Based Healthcare in European University Hospitals—Consensus Report and Recommendations. *Value in Health* 2022, 25, 1148–1156, doi:10.1016/j.jval.2021.11.1355.
13. Tricco, A.C.; Lillie, E.; Zarin, W.; O'Brien, K.K.; Colquhoun, H.; Levac, D.; Moher, D.; Peters, M.D.J.; Horsley, T.; Weeks, L.; et al. PRISMA Extension for Scoping Reviews (PRISMA-ScR): Checklist and Explanation. *Ann Intern Med* 2018, 169, 467–473, doi:10.7326/M18-0850.
14. Arksey, H.; O'Malley, L. Scoping Studies: Towards a Methodological Framework. *International Journal of Social Research Methodology* 2005, 8, 19–32, doi:10.1080/1364557032000119616.

15. Munn, Z.; Peters, M.D.J.; Stern, C.; Tufanaru, C.; McArthur, A.; Aromataris, E. Systematic Review or Scoping Review? Guidance for Authors When Choosing between a Systematic or Scoping Review Approach. *BMC Medical Research Methodology* 2018, 18, 143, doi:10.1186/s12874-018-0611-x.
16. Ng, S. A Qualitative Study on Relationships and Perceptions between Managers and Clinicians and Its Effect on Value-Based Healthcare within the National Health Service in the UK. *HEALTH SERVICES MANAGEMENT RESEARCH* 2022, 35, 251–258, doi:10.1177/09514848211068624.
17. Conrad, D.; Grembowski, D.; Gibbons, C.; Marcus-Smith, M.; Hernandez, S.; Chang, J.; Renz, A.; Lau, B.; dela Cruz, E. A Report On Eight Early-Stage State And Regional Projects Testing Value-Based Payment. *HEALTH AFFAIRS* 2013, 32, 998–1006, doi:10.1377/hlthaff.2012.1124.
18. de Vries, E.; Drewes, H.; Struijs, J.; Heijink, R.; Baan, C. Barriers to Payment Reform: Experiences from Nine Dutch Population Health Management Sites. *HEALTH POLICY* 2019, 123, 1100–1107, doi:10.1016/j.healthpol.2019.09.006.
19. Phillips, R.; Cyr, J.; Keaney, J.; Messina, L.; Meyer, T.; Tam, S.; Korenda, K.; Darrigo, M.; Kumar, P.; Challapalli, S. Creating and Maintaining a Successful Service Line in an Academic Medical Center at the Dawn of Value-Based Care: Lessons Learned From the Heart and Vascular Service Line at UMass Memorial Health Care. *ACADEMIC MEDICINE* 2015, 90, 1340–1346, doi:10.1097/ACM.0000000000000839.
20. Griffiths, E.; Odelade, O.; Gostkorszewicz, J.; Cordero, L. Demonstrating Proof of Concept for Value-Based Agreements in Europe: Two Real-World Cases. *INTERNATIONAL JOURNAL OF TECHNOLOGY ASSESSMENT IN HEALTH CARE* 2023, 39, doi:10.1017/S0266462323000260.
21. Conrad, D.; Grembowski, D.; Hernandez, S.; Lau, B.; Marcus-Smith, M. Emerging Lessons From Regional and State Innovation in Value-Based Payment Reform: Balancing Collaboration and Disruptive Innovation. *MILBANK QUARTERLY* 2014, 92, 568–623, doi:10.1111/1468-0009.12078.
22. Nilsson, K.; Bååthe, F.; Andersson, A.E.; Wikström, E.; Sandoff, M. Experiences from Implementing Value-Based Healthcare at a Swedish University Hospital – a Longitudinal Interview Study. *BMC Health Serv Res* 2017, 17, 169, doi:10.1186/s12913-017-2104-8.
23. Leao, D.; Cremers, H.; van Veghel, D.; Pavlova, M.; Hafkamp, F.; Groot, W. Facilitating and Inhibiting Factors in the Design, Implementation, and Applicability of Value-Based Payment Models: A Systematic Literature Review. *MEDICAL CARE RESEARCH AND REVIEW* 2023, doi:10.1177/10775587231160920.
24. Daniels, K.; van der Voort, M.; Biesma, D.; van der Nat, P. Five Years' Experience with Value-Based Quality Improvement Teams: The Key Factors to a Successful Implementation in Hospital Care. *BMC HEALTH SERVICES RESEARCH* 2022, 22, doi:10.1186/s12913-022-08563-5.
25. Theunissen, L.; Cremers, H.-P.; Dekker, L.; Janssen, H.; Burg, M.; Huijbers, E.; Voermans, P.; Kemps, H.; Van Veghel, D. Implementing Value-Based Health Care Principles in the Full Cycle of Care: The Pragmatic Evolution of the Netherlands Heart Network. *Circulation: Cardiovascular Quality and Outcomes* 2023, 16, E009054, doi:10.1161/CIRCOUTCOMES.122.009054.
26. Conrad, D.; Vaughn, M.; Grembowski, D.; Marcus-Smith, M. Implementing Value-Based Payment Reform: A Conceptual Framework and Case Examples. *MEDICAL CARE RESEARCH AND REVIEW* 2016, 73, 437–457, doi:10.1177/1077558715615774.
27. van Veghel, D.; Soliman-Hamad, M.; Schulz, D.; Cost, B.; Simmers, T.; Dekker, L. Improving Clinical Outcomes and Patient Satisfaction among Patients with Coronary Artery Disease: An Example of Enhancing Regional Integration between a Cardiac Centre and a Referring Hospital. *BMC HEALTH SERVICES RESEARCH* 2020, 20, doi:10.1186/s12913-020-05352-w.
28. van der Nat, P.; van Veghel, D.; Daeter, E.; Crijns, H.; Koolen, J.; Houterman, S.; Soliman, M.; de Mol, B.; Meetbaar Beter Study Grp. Insights on Value-Based Healthcare Implementation from Dutch Heart Care. *INTERNATIONAL JOURNAL OF HEALTHCARE MANAGEMENT* 2020, 13, 189–192, doi:10.1080/20479700.2017.1397307.
29. van Veghel, H.; Dekker, L.; Theunissen, L.; Janssen, J.; Burg, M.; Huijbers, P.; Voermans, P.; van der Wees, P.; Cremers, H. Introducing a Method for Implementing Value Based Health Care Principles in the Full Cycle of Care: Using Atrial Fibrillation as a Proof of Concept. *INTERNATIONAL JOURNAL OF HEALTHCARE MANAGEMENT* 2022, 15, 1–9, doi:10.1080/20479700.2020.1810464.
30. Lansdaal, D.; van Nassau, F.; van der Steen, M.; de Bruijne, M.; Smeulders, M. Lessons Learned on the Experienced Facilitators and Barriers of Implementing a Tailored VBHC Model in a Dutch University Hospital from a Perspective of Physicians and Nurses. *BMJ OPEN* 2022, 12, doi:10.1136/bmjopen-2021-051764.
31. van Veghel, D.; Daeter, E.; Bax, M.; Amoroso, G.; Blaauw, Y.; Camaro, C.; Cummins, P.; Halfwerk, F.; Hamer, I.; de Jong, J.; et al. Organization of Outcome-Based Quality Improvement in Dutch Heart Centres. *EUROPEAN HEART JOURNAL-QUALITY OF CARE AND CLINICAL OUTCOMES* 2020, 6, 49–54, doi:10.1093/ehjqcco/qcz021.
32. Kissam, S.; Beil, H.; Cousart, C.; Greenwald, L.; Lloyd, J. States Encouraging Value-Based Payment: Lessons From CMS's State Innovation Models Initiative. *MILBANK QUARTERLY* 2019, 97, 506–542, doi:10.1111/1468-0009.12380.



33. Chatfield, J.; Longenecker, C.; Fink, L.; Gold, J. Ten CEO Imperatives for Healthcare Transformation: Lessons From Top-Performing Academic Medical Centers. *JOURNAL OF HEALTHCARE MANAGEMENT* 2017, 62, 371–383, doi:10.1097/JHM-D-16-00003.
34. Zipfel, N.; Van Der Nat, P.B.; Rensing, B.J.W.M.; Daeter, E.J.; Westert, G.P.; Groenewoud, A.S. The Implementation of Change Model Adds Value to Value-Based Healthcare: A Qualitative Study. *BMC Health Services Research* 2019, 19, doi:10.1186/s12913-019-4498-y.
35. Nilsson, K.; Bååthe, F.; Erichsen Andersson, A.; Sandoff, M. The Need to Succeed – Learning Experiences Resulting from the Implementation of Value-Based Healthcare. *LHS* 2018, 31, 2–16, doi:10.1108/LHS-08-2016-0039.
36. Randazzo, G.; Brown, Z. Transitioning From Volume to Value: A Strategic Approach to Design and Implementation. *Nursing administration quarterly* 2016, 40, 130–136, doi:10.1097/NAQ.0000000000000153.
37. Goretti, G.; Marinari, G.; Vanni, E.; Ferrari, C. Value-Based Healthcare and Enhanced Recovery After Surgery Implementation in a High-Volume Bariatric Center in Italy. *OBESITY SURGERY* 2020, 30, 2519–2527, doi:10.1007/s11695-020-04464-w.
38. Nilsson, K.; Baathe, F.; Andersson, A.; Sandoff, M. Value-Based Healthcare as a Trigger for Improvement Initiatives. *LEADERSHIP IN HEALTH SERVICES* 2017, 30, 364–377, doi:10.1108/LHS-09-2016-0045.
39. Collden, C.; Hellstrom, A. Value-Based Healthcare Translated: A Complementary View of Implementation. *BMC HEALTH SERVICES RESEARCH* 2018, 18, doi:10.1186/s12913-018-3488-9.
40. Gray, C.F.; Parvataneni, H.K.; Bozic, K.J. Value-Based Healthcare: “Physician Activation”: Healthcare Transformation Requires Physician Engagement and Leadership. *Clinical Orthopaedics and Related Research* 2020, 478, 954–957, doi:10.1097/CORR.0000000000001234.
41. Keswani, A.; Koenig, K.; Bozic, K. Value-Based Healthcare: Part 1-Designing and Implementing Integrated Practice Units for the Management of Musculoskeletal Disease. *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH* 2016, 474, 2100–2103, doi:10.1007/s11999-016-4999-5.
42. Hurh, J.; Ko, Y.; Lee, S. Value-Based Healthcare: Prerequisites and Suggestions for Full-Fledged Implementation in the Republic of Korea. *JOURNAL OF THE KOREAN MEDICAL ASSOCIATION* 2017, 60, 826–840, doi:10.5124/jkma.2017.60.10.826.
43. Nilsson, K.; Baathe, F.; Andersson, A.; Sandoff, M. The Need to Succeed - Learning Experiences Resulting from the Implementation of Value-Based Healthcare. *LEADERSHIP IN HEALTH SERVICES* 2018, 31, 2–16, doi:10.1108/LHS-08-2016-0039.
44. The Past and Future of the Affordable Care Act | Health Care Economics, Insurance, Payment | JAMA | JAMA Network Available online: <https://jamanetwork.com/journals/jama/fullarticle/2533697> (accessed on 6 March 2024).
45. van de Ven, W.P.M.M.; Beck, K.; Buchner, F.; Schokkaert, E.; Schut, F.T. (Erik); Shmueli, A.; Wasem, J. Preconditions for Efficiency and Affordability in Competitive Healthcare Markets: Are They Fulfilled in Belgium, Germany, Israel, the Netherlands and Switzerland? *Health Policy* 2013, 109, 226–245, doi:10.1016/j.healthpol.2013.01.002.
46. Garattini, L.; Martini, M.B.; Nobili, A. Integrated care: la strada giusta per il futuro? *Recenti Progressi in Medicina* 2021, 112, 615–618.
47. Kaplan, R.S.; Porter, M.E. How to Solve the Cost Crisis in Health Care. *Harv Bus Rev* 2011, 89, 46–52, 54, 56–61 passim.
48. Kaplan, R.S. Improving Value with TDABC. *Healthc Financ Manage* 2014, 68, 76–83.

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