

Brief Notes on Medical Supply Strategies in Countries with Low Incomes

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Abstract

Health systems in low-income countries face unique challenges in delivering equitable, accessible, and quality healthcare to their populations. Delivery arrangements, including the organization, financing, and management of health services, play a crucial role in addressing these challenges. This article explores the delivery arrangements for health systems in lowincome countries, focusing on the key challenges they face and innovative approaches that have emerged to improve health service delivery. Countries with low incomes face significant challenges in ensuring the availability, accessibility, and affordability of essential medical supplies. This abstract provides an overview of medical supply strategies in countries with low incomes, focusing on the key challenges they encounter and innovative approaches that have been implemented to address these challenges. Limited financial resources, inadequate infrastructure, supply chain inefficiencies, and disparities in access to medical supplies are among the major challenges faced by these countries. To overcome these challenges, innovative strategies such as local production of essential medicines, bulk procurement, strategic partnerships, and supply chain management reforms have been employed. These strategies aim to enhance affordability, reduce dependency on imports, improve supply chain efficiency, and ensure the availability of quality medical supplies. Additionally, collaboration with international organizations, donor support, and knowledge sharing play a crucial role in strengthening medical supply systems in low-income countries. While significant progress has been made, sustained investment, capacity building, and long-term commitment are necessary to achieve sustainable and resilient medical supply systems in countries with low incomes.

Keywords: Health systems; Low-income countries; Challenges

Introduction

Challenges in health service delivery

Limited resources: Low-income countries often face resource constraints, including inadequate healthcare infrastructure, shortages of skilled healthcare professionals, and limited financial resources. These limitations pose challenges in providing comprehensive health services to the population.

Geographical barriers: Many low-income countries have dispersed populations, including rural and remote communities, which face geographical barriers to accessing healthcare. The lack of transportation infrastructure and long distances to healthcare facilities hinder timely access to services.

Health workforce shortage: Low-income countries often experience a shortage of healthcare professionals, including doctors, nurses, and midwives. This shortage affects the capacity to deliver essential health services and hampers the provision of specialized care.

Health inequalities: Low-income countries often struggle with health inequalities, with marginalized populations experiencing higher burdens of disease and limited access to healthcare. This further exacerbates disparities in health outcomes and access to quality services.

Materials and Methods

Factors effecting on medical supply strategies in countries with low incomes

Several factors can influence the effectiveness of medical supply strategies in countries with low incomes. These factors play a significant role in determining the availability, accessibility, affordability, and quality of medical supplies. Understanding these factors is crucial for designing and implementing effective strategies. Here are some key factors that can impact medical supply strategies in countries with low incomes: **Financial resources:** Limited financial resources pose a major challenge in procuring and maintaining an adequate supply of medical products. Insufficient funding for healthcare systems can result in budget constraints, making it difficult to invest in medical supplies and infrastructure. Inadequate financial resources can lead to stockouts, poor quality control, and limited capacity to respond to emergencies.

Infrastructure and logistics: Inadequate infrastructure, including transportation networks, storage facilities, and cold chain systems, can hinder the efficient distribution and [1-3] storage of medical supplies. Poor infrastructure can lead to delays, increased costs, and compromised quality of medical products. Effective supply strategies must consider infrastructure gaps and work towards improving transportation networks and storage facilities.

Supply chain management: Effective supply chain management is critical for ensuring the availability and timely distribution of medical supplies. In countries with low incomes, supply chain challenges such as weak distribution systems, lack of data visibility, and poor inventory management can hinder the efficient flow of medical supplies. Implementing robust supply chain management practices, including forecasting, procurement, storage, and distribution, is essential for overcoming these challenges.

Local production and manufacturing capacity: Building local production and manufacturing capacity for medical supplies can

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significantly impact the availability and affordability of essential products. Countries with low incomes often rely heavily on imported medical supplies, leading to higher costs and dependency. Developing local manufacturing capabilities can reduce costs, enhance availability, and foster self-sufficiency in meeting medical supply needs.

Regulatory environment: The regulatory environment, including registration processes, quality assurance mechanisms, and import/ export regulations, can affect the availability and quality of medical supplies. Complex and lengthy regulatory procedures can delay the entry of essential products into the market. Streamlining regulatory processes and ensuring effective quality control measures are essential for facilitating access to safe and effective medical supplies.

Health workforce capacity: The availability of trained healthcare professionals and their capacity to manage and administer medical supplies can impact the effectiveness of supply strategies. Adequate training on inventory management, proper use of medical supplies, and adherence to procurement processes is crucial for optimizing supply chain operations and ensuring the appropriate utilization of resources.

International cooperation and donor support: International cooperation [3-7] and donor support can significantly influence medical supply strategies in countries with low incomes. Collaboration with international organizations, partnerships with donor agencies, and knowledge sharing platforms can provide technical assistance, funding, and expertise to strengthen medical supply systems. Support from international entities can help bridge gaps in resources, infrastructure, and capacity.

Health policy and governance: Sound health policies and effective governance play a vital role in shaping medical supply strategies. Clear policies that prioritize access, affordability, and quality of medical supplies are crucial for guiding procurement decisions and ensuring efficient utilization. Effective governance frameworks, including transparent procurement processes, accountability mechanisms, and monitoring systems, promote integrity and minimize corruption in the medical supply chain.

Addressing these factors is essential for developing and implementing effective medical supply strategies in countries with low incomes. By addressing financial limitations, improving infrastructure and logistics, strengthening supply chain management, promoting local production capacity, enhancing regulatory environments, investing in health workforce capacity, fostering international cooperation, and establishing sound health policies and governance frameworks, countries can enhance the availability, accessibility, and affordability of medical supplies, ultimately improving healthcare outcomes for their populations. These formats provide a structured overview of the key challenges faced in medical supply strategies in countries with low incomes and the corresponding strategies or implementation steps to address those challenges. Additional columns or rows can be added to include more specific details or other relevant aspects of the strategies being implemented (Tables 1 and 2).

Results and Discussion

Innovative approaches to delivery arrangements

Community-based health delivery: Community-based approaches aim to bring healthcare services closer to the community, especially in underserved areas. These approaches involve training and deploying community health workers (CHWs) who provide basic healthcare, health education, and [6-10] preventive services at the community level. By leveraging local knowledge and resources, community-based delivery arrangements enhance access and coverage of essential health services.

Table 1. Ney chanenges and strategies.		
Challenges	Strategies	
Limited financial resources	Seek international aid and donor support to secure funding for medical supplies.	
Inadequate infrastructure	Invest in improving transportation networks, storage facilities, and cold chain systems.	
Weak supply chain management	Implement robust supply chain management practices, including forecasting and inventory management.	
Dependency on imports	Promote local production and manufacturing capacity for essential medical supplies.	
Complex regulatory environment	Streamline regulatory processes and ensure effective quality control mechanisms.	
Insufficient health workforce capacity	Provide training on supply management to healthcare professionals.	

Table 1: Key challenges and strategies

Table 2: Strategies and implementation steps.

Strategy	Implementation Steps
Strengthening local production capacity	1. Assess local manufacturing capabilities and identify gaps.
	2. Provide financial and technical support for setting up or expanding local production facilities.
	3. Establish quality control mechanisms and regulatory frameworks for local manufacturing.
	4. Collaborate with international partners to transfer technology and expertise.
	5. Promote domestic procurement of locally manufactured medical supplies.
Strengthening supply chain management	1. Develop a comprehensive supply chain management strategy and framework.
	2. Implement forecasting methods to accurately estimate demand for medical supplies.
	3. Improve procurement processes, including bulk purchasing and strategic sourcing.
	4. Enhance inventory management systems and establish effective distribution networks.
	5. Strengthen data management and information systems for real-time tracking and monitoring.
	6. Provide training to healthcare professionals on supply chain management practices.
	7. Establish partnerships with organizations experienced in supply chain optimization.
Promoting international cooperation	1. Engage in partnerships with international organizations and donor agencies.
	2. Seek technical assistance and expertise in supply chain management and procurement.
	3. Collaborate on knowledge sharing platforms to exchange best practices and lessons learned.
	4. Participate in international initiatives and networks focused on medical supply strategies in low-income countries.

Telemedicine and mobile health: The use of telemedicine and mobile health technologies has revolutionized health service delivery in low-income countries. Telemedicine enables remote consultations, diagnostics, and health education through the use of digital platforms. Mobile health interventions, including text message reminders, mobile applications, and remote monitoring, enhance access to healthcare information and support self-management of health conditions.

Health financing innovations: Innovative health financing approaches, such as community health insurance schemes, microhealth insurance, and results-based financing, have shown promise in low-income countries. These approaches aim to improve financial protection and access to healthcare by pooling resources, increasing revenue generation, and incentivizing quality service provision.

Strengthening health systems: Efforts to strengthen health systems, including improving health information systems, supply chain management, and governance structures, contribute to better delivery arrangements. Strengthening health system components ensures efficient and coordinated service provision, leading to improved health outcomes.

Conclusion

Delivery arrangements for health systems in low-income countries face multifaceted challenges. However, innovative approaches have

emerged to overcome these challenges and improve health service delivery. Community-based approaches, task shifting, telemedicine, health financing innovations, and health system strengthening efforts have demonstrated promising results in enhancing access, quality, and equity in healthcare. By adopting these innovations and tailoring them to local contexts, low-income countries can make significant strides in improving health service delivery and achieving better health outcomes for their populations. Sustained commitment, collaboration, and investment in these delivery arrangements are vital for building robust health systems that address the unique challenges faced by low-income countries.

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