Public Financial Management, Health Governance, and Health Systems



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ACRONYMS

ABF Activity-Based Funding

BRICS Brazil, Russia, India, China, South Africa

DALY Disability-Adjusted Life Year DRG Diagnosis-Related Group **FBO** Faith-Based Organization **GDP Gross Domestic Product GRB Gender Responsive Budgeting HFG** Health Finance and Government

IFMIS Integrated Financial Management Information System

IMF International Monetary Fund

IPSAS International Public Sector Accounting Standards

LMIC Low and Middle Income Country M&E Monitoring and Evaluation **MOF** Ministry of Finance

MOH Ministry of Health

MtE Marshalling the Evidence

MTEF Medium-Term Expenditure Framework NGO Non-Governmental Organization

NHA National Health Accounts

ODI Overseas Development Institute

OECD Organization for Economic Cooperation and Development

P4P Pay-for-Performance **PBB** Program-Based Budgeting PBF Performance-Based Financing **Public Expenditure Management PEM**

PER **Public Expenditure Review**

PETS

Public Financial Management PFM **RBF Results-Based Financing ROB Results-Oriented Budgeting** SAI **Supreme Audit Institutions SDG** Sustainable Development Goal

TFR Total Fertility Rate Treasury Single Account TSA TWG Thematic Working Group

USAID United States Agency for International Development

Public Expenditure Tracking Survey

WHO World Health Organization

INTRODUCTION

Background and Purpose

While the importance of governance in a health system is well recognized, there is an overall lack of evidence and understanding of the dynamics of how improved governance can influence health system performance and health outcomes. There is still considerable debate on which governance interventions are appropriate for different contexts. This lack of evidence can result in avoidance of health governance efforts or an over-reliance on a limited set of governance interventions. As development partners and governments are increasing their emphasis on improving accountability and transparency of health systems and strengthening country policies and institutions to move towards universal health coverage (UHC), the need of this evidence is ever rising.

To address this evidence gap, the USAID's Office of Health Systems (USAID/GH/OHS), the World Health Organization (WHO), and the Health Finance and Governance (HFG) Project launched an initiative in September 2016 to 'Marshall the Evidence' on how governance contributes to health system performance and improves health outcomes.

The overall objective of the initiative was to increase awareness and understanding of the evidence of what works and why in how governance contributes to health system performance, and how the field of health governance is evolving at the country level.

Thematic Working Groups (TWGs)

Four TWGs were formed to consolidate evidence by conducting literature reviews and key informant interviews from low and middle income countries in selected areas: Accountability, Policy and Regulation, Public Financial Management (PFM), and the Use of Knowledge in Health Systems (UKHS). These areas were chosen because of their comprehensive nature and importance in all health systems and because of the lack of an international consensus on priority interventions. The TWGs consisted of a small group of experts from various organizations and academic institutions from different parts of the world that consulted with various policymakers and experts globally. Each TWG was led by two cochairs from different organizations and included a member from WHO and the HFG project.

The TWG Report

This report is one of five—one for each TWG output—and one that provides a synthesis of the findings across the four themes. This report presents the findings of the Public Financial Management.

¹ Marshall the Evidence Webpage: https://www.hfgproject.org/marshalling-evidence-health-governance/

Conceptual Framework

A conceptual framework for health governance was adopted by the larger Marshalling the Evidence (MtE) for Health Governance Initiative (Figure 1). This framework was mapped to a table depicting a causal pathway to guide the four TWGs in the development of a framework specific to each TWG's theme. As depicted in the overall Health Governance framework, PFM is a sub-section of broad country governance.

The PFM conceptual framework represents a culmination of research on the dichotomy of PFM, health systems and governance and the best way to frame the issues associated with PFM and health. In addition, the framework reflects a series of discussions among the TWG members to identify areas that best represented PFM and health interventions. The TWG began with the following research questions to develop the PFM conceptual framework:

- 1. How is PFM defined?
- 2. What are the PFM areas?
- 3. What are the PFM interventions?
- 4. What are the immediate (desired) PFM effects?
- 5. What are the health system effects?

The TWG defined public financial management as all systems dealing with public revenue (PFM Area 1) and budgeting, expenditure management, and oversight (PFM Area 2). In addition to the traditional PFM topics of revenue and expenditure, we also sought evidence on decentralization (PFM Area 3) which is a common governance reform that may have positive or negative effects on PFM, the health system, and health outcomes. Decentralization is also addressed by the TWGs for Accountability and Policy and Regulation.

The framework was the basis for defining the search terms for the digital literature search. Our research database and summary findings (Section 4) follow this framework, looking at the evidence available on PFM/governance interventions that developing countries undertake and their impact on the health system, health service delivery, and health outcomes. Our framework has been marked in grey where we found no evidence for the section.

Health Health Governance Broad Governance Health system Impact Democratization outcomes Patient rights/ War/Conflict Reduced Health empowerment morbidity Corruption service Policy & Regulation and Public Financia and mortality management financial Information & Intelligence coverage Decentralization Accountability Multiple channels through which governance may affect health both direct and indirect

Figure 1: Overall Health Governance Framework (S. Bennett, 2014)

Table 1: Causal Pathway of Health Governance Activities

		be unique to and need to d by each TWG	Indicators comm	on to all TWGs
Inputs/ Resources	Processes	Outputs: Health system performance	Outcomes: Service and financial coverage	Impacts: Improved health status
 Donor or domestic funding Technical assistance Country stakeholder engagement 	Implementation of health governance strategies: • policy, regulatory changes • accountability mechanisms • public financial management • health system intelligence	 Accountable, transparent policy processes Evidence-based decision-making Strengthened institutions Adequate physical and financial resources allocated efficiently/ effectively Better operational processes across all HS functions 	 Increased provision of high-quality services Increased patient demand for, access to, and utilization of health services Improved health behaviors adopted Increased financial protection 	 Reduced morbidity and mortality Improved nutritional status Reduced disability-adjusted life year (DALY) Reduced total fertility rate (TFR)

Adapted from Laurel Hatt, Ben Johns, Catherine Connor, Megan Meline, Matt Kukla, and Kaelan Moat, June 2015. Impact of Health Systems Strengthening on Health. Bethesda, MD: Health Finance & Governance Project, Abt Associates

Table 2: PFM Conceptual Framework: Mapping PFM Interventions to Health System Performance

	PFM Areas	PFM Interventions	Immediate (desired) PFM effects	Governance Results	Health System Effects
	1.1 Resource	Government revenue (tax)	More adequate, predictable, sustainable	Effectiveness and efficiency (of institutions to make	
.e ⊒.	Mobilization	policy	government resource envelope	and implement health policy)	
and Managing for Health	and Revenue Management	Tax Administration Modernization	More efficient, effective, and transparent revenue collection	Rule of law/anti-corruption, effectiveness and efficiency (of institutions to make and implement health policy)	Hypothesis: PFM interventions have an effect on
Generating and Mana Revenue for Health		Improved contributions and collection methods (i.e. retention of user fees at the facility/local level)*	Improving benefit adequacy, cost recovery and fiscal health of programs	Effectiveness and efficiency (of institutions to make and implement health policy)	health service delivery and health outcomes measured through:
1		Earmarking revenues for health*	Increasing revenue sources specifically for the health sector	Responsive Policies, effectiveness and efficiency (of institutions to make and implement health policy)	a) Quality of health service
	2.1 Budget	Policy and strategic planning (medium-term expenditure framework(MTEFs)); fiscal responsibility and fiscal	Multi-year planning that reflects policy priorities in a more stable and predictable environment	Rule of law/anti-corruption, effectiveness and efficiency (of institutions to make and implement health policy)	b) Level of patient demand
agement	Planning and Prioritization	targets Expenditure policy; prioritization; participatory	Resource Allocation: Better matching of health spending needs and priorities	Voice and empowerment, transparency, responsive policies	services d) Utilization of
 Budgeting and Public Expenditure Management of Health Goods and Services 		budgeting Budget classification and government accounting; adopting accrual accounting and International Public Sector Accounting Standards	Consistent nomenclature and budget classification, captures implementing institutions (administrative), purpose of expenditure (functional) and use of expenditure (economic)	Rule of law/anti-corruption, effectiveness and efficiency (of institutions to make and implement health policy)	e) Adoption of health behaviors f) Financial protection
2. Budgeting and of Hea	2.2 Budget Formulation	(IPSAS) Program-based budgeting (PBB)(results-oriented budgeting (ROB)); Improvements to line-item and input-based budget formulation	Improved budget justifications and budget formulation based on objectives, activities and outputs.	Responsive policies, effectiveness and efficiency (of institutions to make and implement health policy)	g) Sustainable Financing Literature scoping will: Identify currently available and ongoing research and field
		Costing techniques, budget justifications	Improved budget submissions from Ministry of Health (MOH) to Ministry of Finance (MOF)	Responsive policies, effectiveness and efficiency (of institutions to make and implement health policy)	experience that evaluate the effect of

PFM Areas	PFM Interventions	Immediate (desired) PFM effects	Governance Results	Health System Effec
	Gender responsive	Improved gender equity and gender prioritization	Equity and inclusiveness	PFM interventions or
	budgeting			health outcomes
	Cash management and	Consolidation of funds, planned and timely fund	Rule of law/anti-corruption, effectiveness and	listed above, with th
	treasury operations;	release, avoiding payment arrears	efficiency (of institutions to make and implement	aim to identify areas
	treasury single account		health policy)	where further
	(TSA)			evidence is needed.
	Integrated Financial	Real time financial information, automates,	Rule of law/anti-corruption, transparency,	
	Management Information	integrates PFM processes for effective, budget	effectiveness and efficiency (of institutions to make	Capture findings of
	System (IFMIS)	formulation, execution and reporting	and implement health policy), accountability	these effects (positive
	Improving public	Sound, flexible procurement rules and purchasing	Rule of law/anti-corruption, transparency,	negative, no effect,
	procurement systems	arrangements	effectiveness and efficiency (of institutions to make	undetermined) to
2.3 Budget	including		and implement health policy), accountability	improve collective
Execution	e-procurement			understanding of ho
	Strategic purchasing of	Selective contracting and payment methods/rates	Responsive policies	PFM/governance
	health goods and services	that create incentives for providers to manage		contributes to healt
	(provider payment)	expenditure based on performance metrics.		system outcomes.
	methods such as capitation,	Linking incentives to results; targeting resources		
	case-based	for specific outcomes, especially vulnerable		
		populations.		
	Results-based financing	Linking financial incentives to results; targeting	Transparency, anticorruption	
	(RBF)*	resources for specific outcomes will increase the		
		likelihood of achieving those results/outcomes.		
2. 4 Budget	Internal controls and	Ensuring public sector integrity by preventing,	Rule of law/anti-corruption, accountability	
Monitoring and	internal Audit	detecting irregular activities		
Reporting	Financial reporting;	Actions properly documented and reported	Rule of law/anti-corruption, transparency,	
	performance reporting;		accountability	
	fiscal transparency; Open			
	Government Initiatives			
2. 5 External	Strengthening Supreme	Actions can be subject to independent,	Rule of law/anti-corruption, accountability	
Audit and	Audit Institutions	professional, and unbiased audit and review		
Parliamentary	(performance audits)			
Oversight	Parliamentary Oversight	Raising and explaining PFM issues, empowerment	Voice and empowerment, rule of law/anti-corruption,	
	(budget analysis capacity;	to oversee budget formulation, appropriation,	transparency, responsive policies, accountability	
	stronger finance	implementation of policies and outcomes of		
	committees)	budget allocations		
	PFM oversight through	Broader, more effective engagement and	Transparency, accountability	
	media and civil society	oversight on budget issues for improved		
	1	transparency and accountability		

Scoping Review Methodology

As part of the larger Marshalling the Evidence for Health Governance Initiative, it was agreed that all four TWGs would use the scoping review methodology for the literature review. Peer-reviewed journals have generally moved to have all review articles explicitly structured using established and validated methods. The scoping review methodology is good for looking at the breadth and depth of the literature for a pre-defined domain. These reviews are typically used to map the terrain of a given area of inquiry while identifying any gaps in the current pool of knowledge. The approach is flexible without narrow parameters such as causality, quality, or effect size which may, for example, feature in systematic reviews.

As explained in Section 2 Conceptual Framework, the broader initiative has an overall framework for health governance which guided the development of specific thematic conceptual frameworks by all four TWGs.

The PFM TWG was tasked with:

- 1. Identifying, compiling, and analyzing the evidence of the effects of PFM interventions on health systems and health outcomes within developing nations
- 2. Presenting the evidence of PFM effects including positive, negative, or inconclusive effects
- 3. Identifying areas where further evidence is needed.

To begin the review, the following research questions were considered:

- 1. How is PFM defined?
- 2. What are the PFM areas?
- 3. What are the PFM interventions?
- 4. What are the immediate (desired) PFM effects?
- 5. What are the health system effects?

Based on the overarching Health Governance framework, the PFM TWG formulated the following hypothesis: PFM interventions have an effect on health service delivery and health outputs measured through:

- a) Quality of health service
- b) Level of patient demand
- c) Access to health services
- d) Utilization of health services
- e) Adoption of health behaviors
- f) Financial protection.

To help guide and structure the literature search, the TWG created a PFM-specific framework to list and group PFM interventions and map how they affect health system performance, governance, and if possible, health outcomes. The PFM framework organized PFM interventions into three areas 1) Generating and Managing Revenue for Health, 2) Budgeting and Public Expenditure Management of Health, and 3) Localization of Health Services.

Literature Search

Before we began the literature review we set some clear goals to help understand the process. These included:

- 1. Use a literature review to identify currently available research and field experience that evaluates the effect of PFM interventions on health system outcomes and population health, with the aim to identify areas where further evidence is needed.
- 2. Capture findings of PFM effects (positive, negative, inconclusive) to improve collective understanding of how PFM/governance contributes to health system outcomes.

Figure 2 displays a flow chart summarizing the literature review process. From October 2016 to July 2017, the TWG conducted a literature search with the following exclusion criteria:

- Language: English (Spanish, French, Portuguese optional)
- Time: after 1990
- Geography: at least one low- and middle-income country (LMIC)
- No duplicate references.

The following search terms were used based on the PFM conceptual framework (see Section 2):

- "PFM and health"
- "governance and health"
- "Decentralization and health"
- "Results based financing for health"
- "Gender responsive budgeting and health"
- "sector budget support and health"
- "budget and health"
- "financing health"
- "expenditure policy and health"
- "financing universal health coverage"
- "health sector priority setting"
- "deconcentration and health"
- "strategic purchasing of health services"
- "health resource tracking"
- "resource allocation for health"
- "audit and health outcomes".

The following databases, websites, and organizations were accessed to search for articles/studies:

- Google Web Search
- Google Scholar
- The Lancet
- Overseas Development Institute (ODI)
- Health Policy and Planning
- International Monetary Fund (IMF)
- The World Bank
- ELSEVIER
- Organization for Economic Cooperation and Development (OECD)
- World Health Organization

- International Journal of Social Sciences and Information Technology
- Social Science and medicine
- International Journal of Health Policy and Management
- The Cochrane Collaboration
- **European Journal of Social Sciences**
- Policy and Practice.

There were 165 references identified from digital searches. The first step in the review process consisted of reading the title and abstract for meeting the inclusion criteria and relevancy. Of the 165 references, 110 were excluded because PFM and health were not referenced in the research (i.e. the article dealt with PFM interventions, but not their effect on the health sector), or the full article was not publicly available. In the second step, the 55 remaining articles were read in full. An additional 15 articles were excluded because the interventions either did not apply to developing countries (i.e. there is a large database of interventions in OECD countries), the interventions did not relate to our established framework, or the methodology of the study was found faulty or questionable.

For all 40 articles found relevant, the full article was read and data extracted and input into an Excel database. Each article is a row in the database with its data organized into the following columns:

- 1. PFM Focus Area based on TWG's PFM framework
- 2. PFM Interventions based on TWG's PFM framework
- 3. Measured effect of the study
- 4. Authors of the study
- 5. Year published
- 6. Journal name
- 7. Article title
- 8. Abstract
- 9. Countries included in study
- 10. Level where the research was conducted (national, district etc.)
- 11. Whether the study was urban or rural focused
- 12. Language of study (English for all)
- 13. Study Design
- 14. Grading of measured impact of intervention (positive, negative, inconclusive)
- 15. Type of publication/study (original research, working paper, etc.)
- 16. Overview of important findings
- 17. Links to MtE Framework—how it describes PFM interventions
- 18. Identifies studies description of governance issues, particularly health governance
- 19. Identifies studies description of health system outcomes
- 20. Identifies studies description of health impact
- 21. Identifies studies description of other outcomes or effects
- 22. Date the information was extracted
- 23. Name of extractor
- 24. Notes (i.e. link to the study)
- 25. Number of observations (this varied by study and could be left blank)
- 26. Study time period.

Based on the 40 articles in the database, preliminary findings were drafted and circulated to the PFM TWG for technical review. In parallel, the TWG conducted key informant interviews with World Bank, OECD, and CABRI experts. These efforts identified an additional 12 articles that were added to the database and the report.

Figure 2: Literature Flow Chart

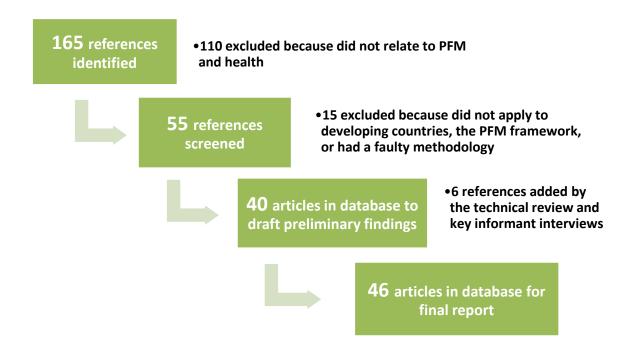


Table 3: Distribution of Articles by PFM Area

PFM Area per PFM Framework	Number of Articles
Resource mobilization and management	9
Budgeting and public expenditure management	20
Localization / Fiscal decentralization	19
Total	40

SUMMARY OF KEY FINDINGS

What is PFM?

Public financial management refers to the systems by which government revenue is collected, administrated, allocated, and utilized. PFM policy and legislation will typically cover tax law, budget management and expenditure policy, debt management, subsidies and state-owned enterprises (parastatals). The PFM cycle begins with revenue collection and management and then moves to budget planning expenditure management and oversight and monitoring. Each country is different, but the budget planning process (either program- or inputs-based) usually involves collecting ministry needs from all agencies and departments (MDAs) and then prioritizing those needs and cutting them to fit within the budget ceiling. PFM systems—when driven by effective policy, strong institutions, and good governance—set the stage for robust health service delivery by allowing for effective health spending. As PFM interventions improve, health officials and donors are emphasizing the importance of a good underlying PFM system in the enablement of efficient delivery of health services and improvement of quality of care.2'3'4 Strong budget execution systems and controls also contribute to smooth flow of funds to the health sector, allowing for timely delivery of care, administration, and procurement. Furthermore, audit and oversight structures can contribute to lower levels of corruption and more transparency which, down the line, can drive effectiveness and efficiency within the health sector.

Generating and Managing Revenue for Health

As availability of direct aid assistance decreases and need proportionately increases, the importance of domestic resource mobilization in developing countries becomes a focus for many international donors. The topic has gained attention in the Addis Ababa Action Agenda and has been touted as the key to sustainable development. Revenue mobilization is the processes involved in collecting and managing government revenue mainly through tax and customs and should have a direct tie to the provision of service, whereby citizens pay taxes and therefore expect services. Revenue mobilization is an important issue for donors to consider the sustainability of an investment, such as whether the country has the capacity to generate and manage revenue to support ongoing service delivery or reforms. This section examines the evidence of the effects of specific revenue mobilization interventions on overall governance, health systems, and health outcomes. The hypothesis is that higher levels of revenue mobilization at the country, state/province or local levels will improve health outcomes through increased funding for health. Our Framework organizes several interventions that are hypothesized to have some desired effect on health outputs. These categories include tax administration and modernization, improved collections and contributions methods, results-based financing, and earmarking revenue for health.

² WHO: Public financing for health in Africa: from Abuja to the SDGs, 2016

³ Cashin C, Bloom D., Sparkes S., Barroy H., O'Dougherty S.: Aligning Public Financial Management and Health Financing, WHO, 2016

⁴ Rajan D., Barroy H., Stenberg K.: Budgeting for health, Chapter 8 in Strategizing for national health in the XXIth century, WHO, 2016

Tax Administration and Modernization

Desired effects: More adequate, predictable, and sustainable government resources and more efficient, effective, and transparent revenue collection

PFM interventions in revenue mobilization could have the capacity to affect health outputs by helping to increase funds that benefit the health sector and by enhancing conditions that facilitate greater allocations towards health spending. However, as Krishna D Rao shows in his 2014 study, overall economic growth and revenue mobilization on their own do not necessarily amount to more health spending or health outcomes. As a proportion of Gross Domestic Product (GDP), government tax revenue is significantly below its potential in low- and middle-income countries (Table 4). In addition, total government spending in Brazil, Russia, India, China and South Africa (BRICS) is still markedly less on health—8.1–12.7%—than many countries in the Organization for Economic Cooperation and Development which in 2016 spent upwards of 17.2% (United States) of its expenditure on health.⁵ There remains considerable potential for expanding health's share of the governmental budgets in all five of the BRICS countries, especially as the countries grow economically and health becomes a greater priority.⁶ There is an opportunity to increase the tax effort and focus and consequently increase tax revenues allocated to health.

Table 4: Country Tax Capacity, Effort, and Corresponding Revenue Collected by Country Income Level

Country groups*	Tax capacity (x)	Tax effort (y)	Total revenue ^D $(x)*(y) = (z)$
Low-income	26.0	0.65	17.0
Middle-income	37.2	0.64	24.1
High-income	45.1	0.76	34.2

*Based on per capita GDP (PPP, 2005): Low = \$642-\$4,752; Middle = \$4,249-\$17,855;

High = \$18,807-\$68,459

Note: Tax capacity and total revenue in percent of GDP terms

Domestic Tax

One multi-country study showed increasing domestic tax revenues is integral to achieving universal health coverage, particularly in countries with low tax bases. The study shows pro-poor taxes (taxes which do not disproportionately burden the poor, usually indirect taxes such as taxes on corporate gains versus a direct tax, such as sales tax) on profits and capital gains seem to support expanding health coverage. Extra revenue from tax reform corresponded to a yearly increase in government health spending of \$9.86 for every \$100 additional revenue collected (95% CI 3.92–15.8), adjusted for GDP per capita. This association was strong for taxes on capital gains, profits, and income (\$16.7, 9.16 to 24.3), but not for consumption taxes on goods and services (–\$4.37, –12.9 to 4.11).

Consumption Tax

Consumption taxes—taxes on goods and services such as a sales tax or value add tax (VAT)—form of taxation that might reduce the ability of the poor to afford essential goods, were associated with increased rates of post-neonatal mortality, infant mortality and under-5 mortality rates. These adverse

⁵OECD. Stat. Health Expenditure and Financing. (2017) http://stats.oecd.org/index.aspx?DataSetCode=HEALTH_STAT August 10, 2017.

⁶ Rao, Krishna et al. "Progress towards Universal Health Coverage in BRICS: Translating Economic Growth into Better Health." WHO (2014).

associations were not found with taxes on capital gains, profits, and income. This evidence suggests pro-poor taxes might accelerate progress toward achieving major international health goals.

Another study highlights the importance of government health spending on health outcomes. The study found low domestic spending on health and high dependence on out-of-pocket payments contributes to poor health outcomes. Supporting this conclusion, the study also reiterated an often cited finding that limited financial protection may lead to poor health outcomes.

Improved Contributions and Collection of User Fees

Desired effect: Improving Cost Recovery

The method used to collect payment from users is an integral part of many public health systems which ties directly to the budgeting and policy systems. Various methods of collections and contributions have been shown to have positive and negative effects on health outcomes. In this section, we examine the effect of user fees, whereby patients pay a fee for the use of public health facilities and services, a potential revenue generation method.

Removal of user fees is sometimes promoted as a method to improve access and equity in a health system, although it cuts off a revenue stream for the health sector. Further, once removed, the user fee often isn't replaced with another funding mechanism. The removal of user fees theoretically would increase access and allow for the poorest populations to use free healthcare. However, Meessen et al. found the removal of user fees does not adequately address supply and demand side of health financing issues and therefore does not have the desired impact on health outcomes that recommend the practice. The study looked across several countries in sub-Saharan Africa and found, in most countries, that there was no comprehensive approach in addressing all the barriers (financial and nonfinancial) that households encounter in their utilization of health services. For example, user fee removal could lead to lower quality of care and limit the increase in utilization if needed revenue previously provided by user fees is not replaced. This study did not however take into account how the user fee revenue was used, for example if the retained revenue was effectively reinvested into improving health services. The study also noted that demand-side barriers such as physical distance and transport challenges to access care are not sufficiently addressed by the removal of user fees. Those living close to health facilities become the main beneficiaries of the free healthcare. 10 A summary of Meessen's findings show removal of user fees, though a common intervention to improve equity, does not alone achieve this goal because of other barriers that inhibit access.

Another approach to improve the collection of user fees is the formalization of user fees with the aim of reducing unauthorized payments. Often officials or health workers collect unauthorized fees from patients and their families. Formalization of fees—for example publishing a fee schedule and introducing systems for reinvesting fee revenue into the facility to benefit patients—would theoretically improve service quality and governance and therefore health outcomes. To mitigate the rising cost of healthcare, particularly amongst the poor, the Cambodian government with support and advice from international agencies introduced a series of financing mechanisms including formalizing

⁷ Reeves, Aaron et al. "Financing Universal Health Coverage—effects of Alternative Tax Structures on Public Health Systems: Cross-National Modelling in 89 Low-Income and Middle-Income Countries." The Lancet 386.9990 (2015): 274-280

⁸ Elovainio, Riku et al. "Raising and Spending Domestic Money for Health" Chatham House (2013); Web. 13 Aug. 2017.

⁹ https://blogs.oxfam.org/en/blogs/17-05-18-will-new-who-director-general-commit-end-crushing-healthcare-user-fees

¹⁰ Meessen, Bruno et al. "Removing User Fees in the Health Sector: A Review of Policy Processes in Six Sub-Saharan African Countries." Health Policy and Planning (2011): 16-29

user fees. Ensor et al. found the user fee policy in Cambodia had no significant detectable impact on the utilization of public (or private) facilities. A summary of these findings are inconclusive on whether formalizing user fees improve utilization and therefore overall health outcomes. Meessen's study neither supports nor refutes the potential positive effect of formalization. Rather, his study identifies that the formalization (much like removal) of user fees alone do not have the desired positive effect on health outcomes because of other powerful external factors—informal payments or geographical barriers to care—that confound the positive effect of removing user fees.¹¹

Earmarking for Health

Desired effect: Increasing revenue sources specifically for the health sector

Earmarking revenues for health has been a controversial topic with many economists and health officials. Some economists argue it decreases efficiency and introduces unnecessary rigidity into the revenue system. The other side of the argument is that earmarking revenue for health (such as sin taxes on cigarettes and alcohol, value added taxes (VATs), payroll taxes or other specific levies) creates a consistent reliable source of financing for a vital public service and potentially improves health outcomes. For example, Ghana's national health insurance program is funded primarily on earmarks. Ghana allocated 2.5% of the national VAT to its health insurance program and the VAT contribution has grown from 62% to 72% of total funding. Despite the benefits seen in some countries' health sectors (as demonstrated in the Ghana example above), earmarking can interfere with resource allocation and negatively impact social welfare by eroding the equity of general taxation and disproportionately taxing consumers. In another study in Gabon, Karima Saleh et al. found that increases in earmarked revenues through mobile phone and monetary transfers taxes were offset by reductions in general budget revenues in the following years. Earmarking has been more effective when practices come closer to standard budget processes, that is, softer earmarks with broader expenditure purposes and more flexible revenue.

Budgeting and Public Expenditure Management (PEM) in Health

Public expenditure management encompasses budget planning, preparation, and execution. The three PFM outcomes expected of PEM systems are fiscal discipline (spend what you can afford), allocative efficiency (spend on the 'right' things), and operational efficiency (provision of public services at a reasonable quality and cost). From a sector standpoint, a country's PEM system also affects its ability to produce health system outputs (health service and financial coverage) as depicted in the overall Health Governance Framework adopted by the Marshalling the Evidence Initiative. Although sector-specific PFM literature is limited, there is empirical evidence (e.g. PFM case studies, Public Expenditure Tracking Surveys (PETS), public expenditure reviews (PERs), etc.) that weaknesses in PEM systems affect health sector results.

¹¹ Ensor, Tim et al. "Impact of Health Financing Policies in Cambodia: A 20 Year Experience" Social Science and Medicine (2017).

¹² Wilkinson, Margaret. "Paying for Public Spending: Is There a Role for Earmarked Taxes?" Fiscal Studies 15.4 (1994): 119–135

¹³ Soe-Lin, Shan et al. "Tax Reform and Resource Mobilization for Health" Health Finance and Governance Project (2015).

¹⁴ Cashin, Cheryl et al. "Aligning Public Financial Management and Health Financing: Sustaining Progress Toward Universal Health Coverage" WHO (2017). Web. 13 Aug. 2017.

Similarly, in Ghana, a survey concluded that only 20% of non-wage public health expenditure reached the frontline facilities. In Senegal in 2004, Health Decentralization Funds took on average 10 months to be at the disposal of the providers, leaving only two months for the facility to absorb those resources. 15 There is often a communication break down between health and finance professionals. The lack of measurable, immediate results from public spending on health can reinforce perceptions that the sector is ineffective and inefficient.

Budget Structure

Desired effect: improve alignment between sector priorities and budgetary allocations and allow more flexibility and accountability in public spending

Budget planning and prioritization are essential parts of the PFM process and dictate where and how much money the health sector will be allocated. There is a shift away from input-based budgeting—a process of budgeting which assigns a number to each of the major inputs, for example, 9 million dollars for salaries and 2 million for vehicles, \$200,000 for office equipment etc. Instead, the trend is to plan budgets according to overall strategic goals—organizing the budget by PBB. This along with other methods in budget planning could improve health service delivery by focusing on health goals rather than yearly inputs. The effects of such a transition are unclear from a health system perspective.

PBB as a PFM intervention is intended to improve good governance by making the MOH accountable for an achievement of objectives (did you achieve the expected goals effectively?) rather than simply budget execution (did you spend the money we gave you for stationery?).¹⁶

Adopting PBB is difficult, and evidence is mixed. In Lesotho for example, a study of PBB found that policy makers and advisors did not fully appreciate the complexity and labor intensity of PBB, or the human resource realities of many developing countries like Lesotho. The Lesotho study concluded that less complex designs for budget reform, better adapted to the context and realities of health sectors in developing countries, may be needed to improve overall governance.¹⁷

Multi-Year Budgeting (MTEF)

Desired effect: multi-year planning that reflects policy priorities in a more stable and predictable environment

The introduction of MTEF and health specific-MTEF in some contexts was aimed at improving predictability in funding with the idea that MTEFs would ultimately affect the health sector's ability to spend and achieve results in a more predictable manner. A review of case studies that documented the status of MTEF in a sample of nine LMICs found that the introduction of MTEF—in close relation with poverty-reduction strategies—encouraged higher prioritization and enhanced country ownership and customization. The introduction of MTEF also more fully encapsulated poor and vulnerable groups by linking them to domestic decision-making processes, particularly in health. 18 However, contrary

¹⁵ Leruth, Luc et al. "A Principal-Agent Theory Approach to Public Expenditure Management Systems in Developing Countries" IMF (2006). Web. 13 Aug. 2017.

¹⁶ Lakin, Jason et al. "Understanding Program-Based Budgeting: Toward Improved Budget Transparency in Kenya" International Budget Partnership (2014).

¹⁷Vian, Taryn and William J. Bicknell. "Good Governance and Budget Reform in Lesotho Public Hospitals: Performance, Root Causes and Reality." Health Policy and Planning 29.6 (2014): 673-684

¹⁸ Wilhelm, Vera et al. "Minding the gaps: integrating poverty reduction strategies and budgets for domestic accountability." The World Bank (2008).

evidence suggests that MTEF is ineffective unless implementation is supported by other governance measures. For example, Bevan and Palomba (2000) observed that the introduction of an MTEF reform in Uganda did not prevent a decline in the proportion of budgets being allocated to healthcare; this may, however, been due to the fact that the Ugandan government considered it acceptable to leave the health sector more reliant on donor financing than on governmental spending.¹⁹

Costing Techniques, Budget Justifications

Desired effect: Improved budget submissions from MOH to MOF

In countries around the world, Ministries of Health and Ministries of Finance play essential roles in how health systems function and when and to whom health services are delivered. While MOHs are responsible for defining the overall direction of national health policy and the day-to-day delivery of public health services, they are dependent upon MOFs that establish overall annual funding levels and release funds necessary to finance MOH operations. In order to justify health budget requests, MOHs employ costing techniques to improve the accuracy and justify budget figures. Examples were found of MOHs using cost and benefit data to justify budget requests for disease-specific interventions (HIV/AIDS^{20,21} and family planning²²). However disease-specific budget justifications sometimes are not well understood by the MOF because the disease programs often do not align to budget categories or divide cleanly into geographic regions. No studies which reviewed the effectiveness of costing techniques to increase general health budgets and consequently increase access and improve health outcomes were identified.

Gender Responsive Budgeting (GRB)

Desired effect: Improved gender equity and gender prioritization

Gender budgeting involves analyzing a budget's impacts on men and women and allocating money accordingly, as well as setting targets—such as equal school enrollment for girls—and directing funds to meet them.²³ The World Bank (2011), Duflo (2012), and Elborgh-Woytek et al. (2013) present evidence on the many ways in which the reduction of gender inequality leads to more rapid economic growth, improved labor productivity, healthier children, and more responsive government.²⁴ A study of GRB in Africa notes that investments in girls and women (including reproductive health investments) offer a "double dividend" because they have pay-offs in terms of women's reproductive roles, as well as their (economic) productive roles. As a tool for intervention, GRB involves a comprehensive process which includes inputs, activities, outputs, assessment of government interventions, and monitoring of the effectiveness and efficiency of public expenditure. This in turn leads to the optimal utilization of

¹⁹ Foster, Mick et al. "How, When and Why Does Poverty Get Budget Priority?: Poverty Reduction Strategy and Public Expenditure in Uganda" Overseas Development Institute (2002).

²⁰ HIV and AIDS Data Hub. <u>Investment Cases.</u> (2013). 13 August 2017 http://www.aidsdatahub.org/Thematic-areas/Investment-cases . Web. 14 Aug. 2017.

²¹ UNAIDS. Smart Investments. (2013). 13 August 2017 http://www.unaids.org/en/resources/documents/2013/20131130_smart-investments

²² Family Planning 2020. <u>Costed Implementation Plans: Strengthening Investments in Family Planning.</u> (2017). 13 August 2017 http://www.familyplanning2020.org/microsite/cip

²³ The Economist. What is Gender Budgeting? (2017). 13 August 2017 https://www.economist.com/blogs/economist-explains/2017/03/economist-explains-2

²⁴ Stotsky, Janet "Gender Budgeting: Fiscal Context and Current Outcomes" *IMF* (2016). 13 August 2017 https://www.imf.org/external/pubs/ft/wp/2016/wp16149.pdf

limited resources and good budget performance.²⁵ An IMF survey²⁶ of gender budgeting efforts throughout the world found that:

- A wide variety of institutional arrangements exist. In most countries, the MOF leads the gender budgeting initiative and establishes requirements for other ministries and agencies within the government to follow. When the MOF leads these efforts, gender budgeting has tended to have more influence on budget policies.
- Countries should prioritize gender-oriented health goals such as reducing maternal mortality and sexually transmitted diseases and providing contraception services to guide budgeting.
- Program budgeting tends to lend itself better than traditional input-based budgeting towards the incorporation of gender-oriented objectives into the budget process. Ukraine and Rwanda provide good examples, where governments are integrating gender budgeting into a PBB approach.

Overall, GRB is seen as a positive intervention when done correctly and complemented by genderspecific key performance indicators and a monitoring and evaluation (M&E) framework for resultsoriented budgeting.

Budget Execution

Budget Execution is the process by which revenue collected is allocated and disbursed to the relevant MDAs. The execution process begins with a disbursement from the MOF or central bank down to the line ministries with the direction to spend money on services. There are many processes and controls needed to track and safeguard money through this process to ensure adequate service delivery. Available data from sub-Saharan African countries indicate that between 10% and 30% of allocated health budgets go unspent.²⁷

Cash Management and Treasury Operations

Desired effect: Consolidation of funds, planned and timely fund release, avoiding payment errors

Cash management and treasury are areas of PFM that include cash planning, cash forecasting, Treasury Single accounts, bank account management, controls for per diems and other non-salary payments, and arrears management. Harmonizing treasury operations and cash processes can improve the budgeting and planning processes of health. If treasury operations are inefficient and reliant upon old outdated processes, then the system can become entrenched. Inefficient treasury operations are also subject to a lack of transparency, enforcement and are often unreliable to the communities it needs to service. It is therefore important for the MOH to work closely with the MOF to develop a detailed forecast of MOH cash flow (spending) to allow for timely releases of funds for services and procurements, and manage expenditures within budget.²⁸ For example, in Mozambique the districtlevel government funding the immunization supply chain is often managed through a single person,

²⁵ Durojaye, Ebenezer et al. "Gender Budgeting As a Tool for Advancing Women's Health Needs in Africa." European Journal of Social Sciences 17,1 (2010): 18-27

²⁶ Stotsky, Janet "Gender Budgeting: Fiscal Context and Current Outcomes" IMF (2016). 13 August 2017 https://www.imf.org/external/pubs/ft/wp/2016/wp16149.pdf

²⁷ WHO: Public financing for health: from Abuja to the SDGs, Geneva, 2016

²⁸ Mu, Yibin "Government Cash Management: Good Practice & Capacity-Building Framework" World Bank (2006).

the district secretary, who may quickly become a bottleneck if many departments are submitting requests simultaneously resulting in cash flow problems. ²⁹ Thus, [vaccine] program managers must anticipate funding needs days or weeks in advance, potentially even for small funding requests like fuel or maintenance. When an unexpected need arises, they may be unable to mobilize the cash in a timely manner. Funding delays and cash flow problems such as these are some of the most widely-reported challenges among on-the-ground practitioners across LMICs, in countries like Nigeria, Sri Lanka, and likely many others. The results are delays of the implementation of health activities which can negatively affect the quality of care and performance.

Integrated Financial Management Information Systems

Desired effect: Real time financial information, automates and integrates PFM processes for effective budget formulation, execution and reporting

Integrated financial management information systems computerize and automate key aspects of budget execution and accounting operations across line ministries such as the MOH. International best practice calls for increased reliance on electronic transactions. ³⁰ IFMIS can enable prompt and efficient access to reliable financial data and help strengthen government financial controls, improving the provision of government services, raising the budget process to higher levels of transparency and accountability, and expediting government operations. IFMIS is an accounting system configured to operate according to the needs and specifications of the environment in which it is installed. The system uses information and communications technology to support management and budget decisions, fiduciary responsibilities, and the preparation of financial reports and statements. An analysis of IFMIS in five developing countries found that the extensive requirements for successful implementation were particularly demanding on these countries' administrations. ³¹ Unfortunately, no research has been conducted regarding IFMIS' effect on the health sector, but it is routinely used as an overall PFM solution especially for conflict countries with an obsolete or destroyed administrative and economic infrastructure.

Improving Public Procurement Systems

Desired effect: Sound, flexible procurement rules and purchasing arrangements

As public procurement accounts for a substantial portion of the taxpayers' money, governments are expected to ensure that it is undertaken with sufficient oversight in order to ensure that it safeguards the public interest and delivers high quality goods and services. Improved public procurement systems can benefit the health sector by preventing waste (e.g. high prices for drugs), preventing fraud (e.g. vendors paying bribes to win contracts³²), and reducing transaction time. For example, needed medical equipment is available more quickly.

A study of e-procurement used by a joint purchasing system for a network of seven university hospitals in Brazil found e-procurement was successful in achieving real savings. A decrease in price > 10% was

²⁹ Village Reach. "Delivering The Money: The Importance of Efficient Financial Flows for Vaccine Distribution." (2016).

³⁰ Mu, Yibin "Government Cash Management: Good Practice & Capacity-Building Framework" World Bank (2006).

³¹ Diamond, Jack and Pokar Khemani "Introducing Financial Management Information Systems in Developing Countries" IMF (2005).

³² http://www.americasquarterly.org/content/corruption-network-guatemalan-health-system-exposed

observed in 47% of the medications analyzed. A decrease > 20% was recorded in 32% of the 37 items. Overall, the unit price for 26 items (70%) had an average reduction of 23%33.

Kenya implemented an automated public procurement process known as procure-to-pay (P2P)³⁴. The procure-to-pay system is an electronic procurement tool that implements streamlined process from requisition, tendering, contract award to payment. A review of adoption of P2P by Kenyan parastatals (16% of which are in the health sector) observed reduced lead times, minimal paperwork, low tender costs, reduced redundancy, and reduced bureaucracy35. The government of Kenya intended to fully implement the procure-to-pay systems by mid-2017 with the goal of enhancing accountability and transparency in the procurement of goods, works, and services in the public sector.

Strategic Purchasing of Health Services

Desired effect: Selective provider contracting and payment methods that create incentives for efficiency, quality, and equity.

Strategic purchasing is the process by which funds are allocated to healthcare providers to obtain services on behalf of identified groups (e.g. insurance scheme members) or the entire population (Kutzin 2001). It is usually broken into identification of goods and services to be purchased, selection of service providers, service quality, efficiency and equity, and determining the contractual and financial elements of the purchase. Strategic purchasing in this context refers to a country's provider payment system, defined as the payment method combined with all supporting systems, such as contracting, accountability mechanisms, and management information systems.³⁶ Purchasing strategies that can help improve efficiency typically require flexibility to contract and pay healthcare providers for outputs, as well as up-front investments in capacity.37

In Mongolia for example, the MOH identified strategic purchasing—in particular, provider payment as an important way to direct limited funds to priority services. Yet strategic purchasing has been limited by the continued flow of all public funds through facility-based line-item budgets that are tightly managed by the national treasury. Some new output-oriented payment systems have been used in the social health insurance system, but it remains difficult to create incentives for providers because all funds are planned, disbursed, and accounted for using input-based line-item budgets.

Payment systems should help achieve health policy objectives by encouraging access to necessary health services for patients, high quality of care, and improved equity. Payment systems should also promote the effective and efficient use of resources and, where appropriate, cost containment. Payment systems function better when they are transparent, allow for participation, and assure accountability. Yet public purchasers, such as the MOH and insurance agencies, continue to rely solely on conventional payment methods such as line-item budgets and fee-for-service.

In fee-for-service methods, the provider is reimbursed for each individual service provided. When there is no fixed-fee schedule and services are not bundled (that is, where healthcare services are not

³³ Sigulem F, Zucchi P. E-procurement in the Brazilian healthcare system: the impact of joint drug purchases by a hospital network. Rev Panam Salud Publica. 2009;26(5):429-34.

³⁴ http://supplier.treasury.go.ke/site/tenders.go/index.php/pages/about

³⁵ Kalau, Mwenga Esther 2016. E-Procurement Strategies and the Performance of Kenya Owned Parastatals. MBA Research Project. School of

³⁶ Langenbrunner, John et al. "Designing and Implementing Health Care Provider Payment Systems: How-to Manual. World Bank (2009).

³⁷ Cashin, Cheryl et al. "Aligning Public Financial Management and Health Financing: Sustaining Progress Toward Universal Health Coverage" WHO (2017). Web. 13 Aug. 2017.

grouped into a higher aggregated unit), providers bill purchasers for all costs incurred. While fee-for-service has advantages (easy to implement, thought to improve access and utilization for underserved populations), the incentives to provide more services (and drive up costs) and use more expensive inputs makes this type of payment method unsustainable in most health systems.

To help establish strategic payment methods that incentivize the better management of expenditures, purchasers need to link payment to outputs. Evidence was found for two strategic purchasing methods that are more output driven: diagnosis-related group (DRG) and results-based financing.

Diagnosis-Related Groups (DRGs): Several low- and middle-income countries (particularly in the Asia Pacific region) are introducing or considering the implementation of DRGs to contain inpatient costs. DRG is a system of classifying patients (usually hospital patients) into groups based on their diagnosis for the purposes of payment. The system also acts as a method for managing hospital funding arrangements by using a broader category of case-based or activity-based funding (ABF) arrangements to increase the efficiency of hospital services. In practice, DRG-based hospital payment systems are supposed to adopt a standard pricing framework that provides equality in payments across healthcare providers for services of the same type. DRGs can also be linked with social health insurance and government funding mechanisms to help set reasonable and equitable payment amounts. DRGs, in theory, are supposed to provide a means for the management and financing of public and/or private hospital services. Yet, evidence regarding the impact of DRG-based payment systems on efficiency and quality, however, is limited and mixed.

When assessing studies that looked at the impact of DRG-based hospital payment systems, a few common themes emerged. Length of hospital stays tended to decrease and volume of hospitalizations tended to increase in countries that use DRGs to set hospital budgets, while volume tended to decrease in countries that shifted from a cost-based reimbursement system to a DRG-based payment. Annear et.al found DRGs tended to affect the non-hospital sector by shifting costs from inpatient to outpatient. Be Despite these inconclusive results, the introduction of DRGs must be seen in the context of a country's wider health system. A study looking at DRGs in LMICs noted that DRG systems have to be understood as evolving. The introduction of a DRG system may just be part of the long path of continuous provider payment development and adjustment, and direct results may not be able to be measured. If DRGs are seen as an intervention in line with larger system wide changes then it is understandable that as a provider payment mechanism it should be implemented in line with larger contextual changes of professional ethics and increased focus on quality of care. Be with the common common contextual changes of professional ethics and increased focus on quality of care.

Results-Based Financing

Desired effect: Linking financial incentives to results and targeting resources for specific outcomes will increase the likelihood of achieving those results/outcomes.

Results-based financing is an intervention which links payments to results. RBF is also known as performance-based financing (PBF) or pay-for-performance (P4P). A portion of the funding for health facilities becomes dependent on results, as opposed to just standard budget allocations. While not a PFM intervention itself, RBF requires changes in public financial management to operationalize in

³⁸ Annear, Peter Leslie and Dale Huntington "Case-base Payment Systems For Hospital Funding in Asia: An Investigation of Current Status and Future Directions." *Comparative Country Studies* (2015).

³⁹ Mathauer, Inke and Friedrich Wittenbecher "DRG-based Payment Systems in Low and Middle Income Countries: Implementation Experiences and Challenges." World Health Organization (2012).

public health facilities. The idea of linking performance to financing is to reward providers that achieve results, such as compliance with clinical protocols or increased immunization.

Many studies have found RBF results to be uncertain. In Lesotho, one study found that RBF did not have the desired effect at the hospital level because staff lacked the capacity to implement the reform. The authors of the study noted that the policy goals in Lesotho were also not adequately translated from the national to facility level, which contributed to the lack of adoption. 40

Another study conducted in Cameroon found concerns that RBF may inadequately address inequalities in access to care. After testing the PBF intervention targeting the poorest in Cameroon communities, the study concluded that a system of targeting the poorest of society in PBF programs may help reduce inequalities in healthcare use, but only when design and implementation problems leading to substantial under-coverage are addressed. 41 It therefore remains inconclusive if RBF interventions can address inequities in access to care.

There are concerns regarding the validity of the indicators, privacy and administrative burden, when implementing RBF, making it a controversial intervention. One study examined the effect of P4P in Tanzania on internal and external accountability mechanisms. P4P had some positive effects on Tanzanian hospitals' internal accountability, with increased timeliness of supervision and the provision of feedback during supervision, but a lack of effect on supervision intensity. P4P also reduced the interruption of service delivery due to broken equipment, as well as drug stock-outs due to increased financial autonomy and responsiveness from managers. Furthermore, P4P affected management practices in Tanzania by making them less hierarchical and with less emphasis on bureaucratic procedures. However, effects on external accountability were mixed. Health workers treated pregnant women more kindly, but outreach activities did not increase. Facilities were more likely to have committees, but their role was largely limited. P4P did, however, improve internal accountability measures through improved relations and communication between stakeholders that were incentivized at different levels of the system and also enhanced provider autonomy over funds. 42

Additionally, Petrosyan and Melkomian found that Armenia's RBF program contributed to a substantial increase in the utilization of PHC services and improved provider performance. This intervention was coordinated with well sequenced reforms and supported by nationwide training and bonus payments to keep participants motivated. Researchers hypothesized these factors may have significantly contributed to the success of the program. They also cited domestic finance as a major source of success because it encouraged country buy-in and ownership.⁴³

Budget Monitoring and Reporting

Throughout the budget planning and execution processes, it is vital to have sound monitoring and reporting systems in place. The efficacy of these systems can be a big determinant of how efficiently and effectively funds are used. Budget monitoring and reporting can also contribute to anticorruption

⁴⁰ Vian, Taryn and William J. Bicknell. "Good Governance and Budget Reform in Lesotho Public Hospitals: Performance, Root Causes and Reality." Health Policy and Planning 29.6 (2014): 673-684.

⁴¹ Ilse JE Flink et al. "Targeting the Poorest in a Performance-Based Financing Programme in Northern Cameroon" Health Policy and Planning 31,6 (2016): 767-776

⁴² Mayumana, Iddy et al. "Effects of Payment For Performance on Accountability Mechanisms: Evidence From Pwani, Tanzania." Social Science and Medicine 179 (2017): 61-73

⁴³ Petrosyan, Varduhi et al. "National Scale-Up of Results-Based Financing in Primary Health Care: The Case of Armenia" Health System & Reform 3,2 (2017): 117-128

efforts, as well as potentially increase level of service through safeguarding funds against fraud waste and abuse.

Internal Controls and Internal Audit

Desired effect: Ensuring public sector integrity by preventing and detecting irregular activities

The necessity for ensuring safe, quality, and cost effective services is more often done through an audit process. The audit process certifies that all financial practices comply with PFM procedures and informs providers about any issues or irregularities, promoting transparency and health sector integrity. A study examining East and Southern Africa found that a lack of regulation combined with no formal auditing process and mixed messages from the MOF created an uncertain and fragmented policy environment across the region. Countries which had formal regulating policies on the private sector and an auditing process, such as Botswana, Kenya and Uganda, however, did not encounter these issues. The study pointed out that the lack of control may be due to the fact that most regulatory authorities do not have the capacity—finances, human resources, and logistics—to carry out all their responsibilities, especially when faced with an expanding private sector. Professional councils in Africa face enormous responsibilities as they are often charged with registering, licensing, inspecting, and relicensing health professionals as well as facilities across both the public and private sectors.

Financial Reporting; Performance Reporting; Fiscal Transparency Open Government Initiatives

Desired effect: Expenditure properly documented and reported; better accountability

Financial reporting should address possible misalignment that may emerge between budget structure (how allocations are made) and expenditure management and reporting systems (how expenditures are reported). Weak financial reporting creates distortions and missed opportunities for monitoring performance in a consistent manner.

Timely, reliable, and complete financial reporting in the health sector is critical for sound policy making and planning, particularly in developing countries where a history of corruption and scarce resources makes transparency even more necessary. Historically, developing countries have attempted to accurately record spending on health services via health resource tracking. More recently, they have shown renewed interest in health resource tracking as pressure has mounted to improve accountability for the attainment of the sustainable development goals (SDGs). Health resource tracking in developing countries has advanced substantially over the years in the standardization of methods and provision of more reliable information to influence decision-makers in the improvement of health system performance. The System of Health Accounts introduced by the OECD in 2011 (SHA 11) tracks financial health data provided by countries and has seen important advances in countries' health accounts:

- Disaggregation of funding sources for public expenditure on health (external versus domestic)
- Delineation of all sources of revenues, as well as expenditure of schemes/agents (e.g. insurance schemes)
- Disaggregation of capital versus current expenditure.

A study which reviewed National Health Accounts (NHA) noted that NHAs are at most a framework and therefore can do little to address the underlying problem of weak government public expenditure management and information systems that provide much of the raw data. The emergence of budget support aid modalities poses a methodological challenge to health resource tracking; such support is difficult to attribute to any particular sector or health program.⁴⁴

External Audit and Parliamentary Oversight

In addition to internal controls, it is important to have external monitoring bodies that act as a second check on the established internal controls. Effective external monitoring and oversight can add up to increased transparency and less fraud and corruption which could theoretically lead to more effective use of funds and better service delivery. These external monitoring bodies, however, must be independently financed and should ideally adhere to global best practice to ensure adequate oversight is achieved. Civil society and elected officials can also play an important part in monitoring PFM systems and budgets.

Strengthening Supreme Audit Institutions

Desired effect: Actions can be subject to independent, professional and unbiased audit and review

Supreme Audit Institutions (SAIs) are governmental entities that are established by law to act as an external auditor, traditionally known for their oversight of public expenditure and operations. Unfortunately, no literature regarding the role of SAIs in the health sector was found. Researchers conducted a systematic review assessing the effects of audit and oversight (general SAI practices) on healthcare professionals and patient outcomes and examining the factors that explain the variated effectiveness of audit and feedback. However, the review focused on healthcare professional practices and not budgetary concerns; thus the review could not be compared with the intervention of SAIs. 45

PFM Oversight through Media and Civil Society

Desired effect: Broader, more effective engagement and oversight on budget issues for improved transparency and accountability

It is important to involve Parliament and the media and civil society. A study, which analyzed setting healthcare priorities in Kenya, noted that there is no systematic and effective mechanism to elicit and incorporate community values in the budgeting and planning processes. The study observed that if hospitals (and the health sector) are perceived to be a social institution, then the lack of a mechanism to incorporate community values limits the legitimacy and responsiveness of the hospital budgeting and planning processes. The study concluded that to help overcome this issue, county hospitals in Kenya must incorporate participatory community engagement mechanisms such as the incorporation of community members in hospital planning committees and the use of citizen juries or planning cells. The selection of community representatives in these mechanisms must, however, be seen to be

⁴⁴ Powell-Jackson, Timothy and Anne Mills "A Review of Health Resource Tracking in Developing Countries." Health Policy and Planning 22,6 (2007): 353-362

⁴⁵ Ivers, Noah et al. "Audit and Feedback: Effects On Professional Practice and Healthcare Outcomes." The Cochrane Collaboration (2012).

transparent and fair. This study highlights that the involvement of non-governmental players can enhance the transparency, accountability, and even the legitimacy of the health sector. Similarly, using municipal-level data from Brazil spanning the period 1990–2004, Gonçalves (2014) found that municipalities which implemented participatory budgeting reforms were more likely to allocate increased funding to health and sanitation services. This finding was confirmed even after controlling for a range of other variables. This finding was confirmed even after controlling for a range of other variables.

Fiscal Decentralization and Local Governance

The "localization" of health services is the process of redistributing or dispersing finances, functions, powers, people or things away from a central location or authority to the local level, known as decentralization. It is both a political and administrative intervention as it moves power and decision making from central authorities to localities and local authorities. Fiscal decentralization, as a PFM intervention, shifts revenue raising and/or expenditure of monies to a lower level of government who will maintain financial responsibility. In health, fiscal decentralization is a mechanism by which the control of the financing of health procurement, services, and funding is given to local authorities.

Specific PFM interventions include deconcentration, delegation, devolution, intergovernmental transfers, health-specific transfers, budget autonomy for local governments or health providers, strengthening subnational public financial management systems, and budget autonomy for health providers. Only the subsections where evidence was found are included in this report. The section below reviews the overarching assumption of decentralization within the specific interventions mentioned above and examines the positive or negative effects of decentralization on overall governance, health systems and health outcomes. Of the articles reviewed, most or all cases did not isolate the seven interventions mentioned on our framework, but rather the studies examined decentralization as a broad concept with an implication for overall governance frameworks.

The implications of decentralization are varied and often depend on pre-existing socio-economic and organizational context, financial barriers to access, the form of decentralization implemented, and the complementary mechanisms executed alongside decentralization.⁴⁸

Revenue and expenditure management through local administration (Deconcentration)

Desired effect: the transfer of administrative and fiscal responsibilities to lower levels of government resulting in the empowerment of communities and local authorities.

Deconcentration's aim is to localize decision making in hopes of achieving greater efficiency and effectiveness. A major concern is that deconcentration may lead to the capture of decision-making processes by local elites rather than by the communities they represent, thereby promoting rather

⁴⁶ Barasa, Edwine et al. "Setting Healthcare Priorities: A Description and Evaluation of the Budgeting and Planning Process in County Hospitals in Kenya." *Health Policy and Planning* 32,3 (2016): 329-337

⁴⁷ Goryakin, Yevgeny et al. "Public Financial Management and Health Service Delivery: A Literature Review" *Overseas Development Institute* (2017).

⁴⁸ Sumaha, Anthony Mwinkaara et al. " The Impacts of Decentralisation on Health-Related Equity: A Systematic Review of the Evidence." Health Policy 120,10 (2016): 1183-1192

than preventing corruption. 49 Another concern is that poorer regions may suffer if the redistributive powers of central government are reduced.50.

The rhetoric of deconcentration does not always mirror actual implementation, nor does it always result in empowered local actors. 51 For example, in Ghana the lack of coherence in district financing, mandated managerial responsibilities, and strong vertical accountabilities has negatively influenced the authority of district health managers, thereby deterring deconcentration. After an initial process of administrative decentralization was completed in Ghana, followed by a century of administrative decentralization reforms, the result was only a limited shift of power from national to sub-national levels. While the origins of district health system development were in fact bottom-up, the broader governance tendencies towards centralization destabilized the implementation of decentralization, resulting in an intervention which failed to empower local actors. The subsequent limited shift of power from national to sub-national actors seen in Ghana is not an isolated example of decentralization not reaching its full potential of empowering local authorities.

Decentralization is also sometimes theorized to encourage yardstick competition among local governments and to potentially lead to better quality public services (Adam et al., 2008). However, a cross-country analysis concluded that if central governments retain some authority to influence local policy and implementation without compromising the autonomy of local decision making, it is more likely that the benefits of a devolved system will be realized.⁵² Many of the studies reviewed in the cross-country analysis seemed to reiterate this theme that decentralization without some central direction appears to undermine health system effectiveness—which demonstrates that pure deconcentration may not be attainable. The cross-country analysis also concluded that countries which achieve a more fiscally decentralized system are associated with lower mortality rates and improving health outcomes in environments with high levels of corruption. All the studies concluded that the implementation of decentralization policies has varied effects and is governed by context.

In Fiji, decentralization efforts in health have resulted in a shift of patients visiting tertiary hospitals to more visiting peripheral health centers. This has been accompanied by a limited transfer of administrative authority, suggesting that Fiji's deconcentration interventions reflect the transfer of workload (and patients) only, while decision-making has remained mostly centralized. A study which analyzed decision space in Fiji in five functional areas (finance, service organization, human resources, access, and governance rules) identified that the Fijian health systems remain largely centralized with limited decision space at subnational levels. According to one study of deconcentration efforts in Fiji, decentralization has had an inconclusive effect on empowering local actors (with most of the power and authority staying centrally located) and on health systems and outcomes. The results remain vague due to a 300% increase in the utilization of health services at the health center level since the introduction of decentralization, but a decline in funding for ambulatory care. This decline in funding, despite an increase of utilization, could suggest a decline in quality, thereby affecting outcomes. However, more research is needed in this area to confirm. 53

⁴⁹ Vian and Collins, 2006. "Using financial performance indicators to promote transparency and accountability in health systems. U4Brief No. 1. U4 Anti-Corruption Resource Centre. CHR Michelsen Institute. October 2006

⁵⁰ Goryakin, Yevgeny et al. "Public Financial Management and Health Service Delivery: A Literature Review" Overseas Development Institute

⁵¹ Kwamie, Akuet et al. "The Path Dependence of District Manager Decision-Space in Ghana." Health Policy and Planning 31,3 (2016): 356-

⁵² Robalino, David "Does Fiscal Decentralization Improve Health Outcomes? Evidence from a Cross-Country Analysis." The World Bank (2001).

⁵³ Mohammed, Jalal et al. "Decentralisation of Health Services in Fiji: A Decision Space Analysis." International Journal of Health Policy and Management 5,3 (2016): 173-181

Revenue and Expenditure Management through Local Governments (Devolution)

Desired effect: Transferring fiscal responsibilities to lower levels of government to empower communities through local governments

Evidence from a study in Zambia demonstrated that in a poor country with declining health budgets, allowing district health officials a moderate degree of choice for many key functions did not worsen inequalities among districts, nor had it reduced the utilization of health services.⁵⁴ On the positive side, deconcentration efforts in Zambia have allowed the districts to make decisions on the internal allocation of resources and on user fee levels and expenditures. However, districts' choices were quite limited over salaries and allowances, and they did not have control over additional major sources of revenue, like local taxes. Bossert et al. concludes that the Zambian health sector differs from other cases of 'devolution' in that its capacity to generate significant additional revenue sources, such as local taxes, is quite narrow. The Zambian case therefore demonstrates that decentralization can have a positive impact on overall governance in terms of empowering local decision making, but can remain inconclusive about the impact on the health system and health outcomes. In contrast, in Tajikistan, post- soviet rapid devolution of both revenue and expenditure authority to local governments led to poor risk pooling and a high degree of inequity.55

Budget Autonomy for Local Governments or Providers

Desired effect: Local governments decide, independently or within a framework, the categories, quantity and quality of services that it intends to offer.

Budget autonomy frees local governments from waiting for central-level approvals and gives them discretionary decision making over health budgets to manage the quality, quantity, and delivery of health services under their jurisdiction.

Examples of successful budget autonomy can be seen in Colombia and Chile, where equitable levels of per capita financial allocations at the municipal level were achieved through different forms of intergovernmental transfer of public funds (i.e. allocation formula, local funding choices, and horizontal equity funds). 56 Evidence from these countries suggests that decentralization can contribute to, or at least maintain, equitable allocation of health resources among municipalities of different incomes. There were also positive effects seen in Colombia and Chile on health systems. The study describes how poorer communities being given new responsibilities for health via decentralization encouraged local communities to put sufficient resources into their health systems to provide an adequate basic minimum. No evidence of health outcomes was reviewed, but data from Colombia shows that a population-based formula for national allocations is an effective mechanism for achieving equity of expenditures. When the Philippines decentralized in the early 1990s, the share of total tax revenue allocated to local governments doubled from 20% to 40% and was distributed based on a formula of 25% equal share, 50% population, and 25% land area. This was followed by an increase in

⁵⁴ Bossert, Thomas et al. "Decentralization in Zambia: Resource Allocation and District Performance." Health Policy and Planning 18,4 (2003): 357-369

⁵⁵ Cashin, Cheryl et al. "Aligning Public Financial Management and Health Financing: Sustaining Progress Toward Universal Health Coverage" WHO (2017). Web. 13 Aug. 2017.

⁵⁶ Bossert, Thomas et al. "Decentralization and Equity of Resource Allocation: Evidence From Colombia and Chile." Bulletin of the World Health Organization 81 (2003): 95-100

local health spending. Local government expenditures increased 11% in 1992 and 52% in 1993, with health services accounting for 66% of the total cost of devolved national functions. 57

Decentralization can also adversely affect risk pooling, a health finance mechanism frequently implemented as national health insurance. A study in Peru found fiscal decentralization at odds with efforts to increase pooled health funds. Efforts to improve risk pooling by channeling a larger share of health budgets through the national health insurance fund have been thwarted because officials were concerned it would conflict with the decentralization policy.⁵⁸ In countries with a high degree of fiscal decentralization for collecting revenues and setting priorities for expenditures, pooling is more fragmented if there is not a strong equity-based mechanism for redistribution. This lessens equity and financial protection in the health sector.⁵⁹

⁵⁷ Bossert, Thomas et al. "Decentralization and Equity of Resource Allocation: Evidence From Colombia and Chile." Bulletin of the World Health Organization 81 (2003): 95-100

⁵⁸ Francke, Pedro "Peru's Comprehensive Health Insurance and New Challenges For Universal Coverage." World Bank (2013).

⁵⁹ Cashin, Cheryl et al. "Aligning Public Financial Management and Health Financing: Sustaining Progress Toward Universal Health Coverage" WHO (2017). Web. 13 Aug. 2017.

IMPLICATIONS FOR POLICYMAKERS

This section highlights selected PFM interventions that were found to have the strongest evidence of impact on health system performance and health outcomes for policymakers. The discussion is organized from the perspective of relevancy to policymakers rather than PFM area or intervention. Some interventions were shown to be more effective than others in increasing health outputs with certain caveats and considerations for policymakers to be aware of when seeking the desired end.

How to increase funding for health

Policymakers can increase funding for health through PFM by increasing tax revenue, prioritizing health financing, and increasing efficiency in health spending.

Improving tax policy and collection has increased government tax revenue overall. Pro-poor taxes, such as taxes on corporate gains, tailored personal and corporate income levels paired with and avoiding taxes on consumption can contribute to health results. However, even if taxes are increased or introduced, expected revenue can fall short due to inadequate administration, antiquated collection methods, and weak enforcement mechanisms. Policymakers should adopt PFM interventions that increase the efficiency and effectiveness of tax administration by reducing cost of compliance, increasing ease of compliance, and reducing corruption with system automation and adoption of a-risk based approach to enforcement.

Policymakers need to make health a priority for public financing. In many cases, increased general government revenue does not guarantee a proportionate increase in health funding. There are several ways policymakers can prioritize health spending:

- Policy advocacy which includes making the economic case for health in terms of impact on educational attainment, employment, and economic growth (advocacy complements the options below).
- Budget planning and budget justifications to make health financing a priority.
- Creation of a tax fund specifically for health such as dedicating a portion of tax revenues to health services.
- Introduction of taxes or fees earmarked for health, such as taxes on mobile phone calls, financial transactions, alcoholic beverages, and tobacco, although there is debate among experts as to the efficacy of earmarks.
- Decentralization of spending to the subnational level to increase local pressure and accountability to fund health, albeit the evidence is mixed.

Thirdly, policymakers can support efforts to increase the efficiency of health spending. Even if there is increased allocation of public funding to health, those funds may not be spent efficiently. The elements of effective expenditure include effective planning, controlled expenditure, and effective oversight. There were PFM-related areas to increase the efficiency of health spending:

Policymakers may consider several interventions to improve planning such as introducing a Medium-Term Expenditure Framework (MTEF) or multi-year sector budgeting plan to improve predictability in health funding and consequently the health sector's ability to spend and achieve results in a more predictable manner. They may also consider better yearly planninglooking at gaps in the needs collation, prioritization, and allocations processes.

Automation of systems has shown effective to improve control of spending. The introduction of two interventions—IFMIS and e-procurement—have potential to reduce waste and fraud by increasing transparency and accountability. Procurement is often a source of corruption and ineffective political spending. E-procurement can reduce fraud and waste and reduce transaction costs as well as the cost of drugs, medical supplies, and other commodities. Integrated financial management information systems often are used to introduce greater control, transparency, and accountability into the expenditure process, reducing human error and corruption through a series of automated checks and controls enforced for all transactions. Although no research has been conducted on IFMIS' effect on the health sector, it is a proven PFM intervention that raises the budget process to higher levels of transparency and accountability and expedites government operations.

How to make government health spending more accountable and responsive

As stewards of the health system and representatives of civil society, policymakers should take steps to improve oversight and increase accountability of health spending. Policymakers may consider several PFM interventions:

- Improving the analysis, visualization, and communication of health financing data to enhance understanding and use.
- Automation of some reports to increase transparency and accountability.
- Increased oversight via audit and reporting for better accountability within health systems and more transparency.
- Fiscal decentralization, the act of decentralizing control of health procurement, services and funding to local authorities to increase accountability and responsiveness and to create a tighter feedback loop for oversight.

GAPS

More research is needed on the role of parliamentary oversight and policy environment. Our research did not unearth any results in these areas. Parliamentary oversight is a hallmark of democracy. It is able to hold the executive branch accountable for its actions and ensure that it implements policies in accordance with the laws and budget passed by the parliament. This is predominantly true in health. Executive action in health, particularly in developing countries, remains a top priority for government. However the research shows that despite the planning and even execution of health budgets, many priority measures are never fully implemented. It is, therefore, parliament's responsibility to oversee budget formulation and the implementation of policies to ensure that health priorities are fully funded and addressed.

More research is also needed on the role and effects of a Supreme Audit Institution on the health system. No research on the topic was found.

Improvements in budget classification—removing duplicates, miscoding, reducing the number of lines, or reducing the number of off-budget transactions—are seen to be key PFM interventions in many settings. While acknowledged as critical interventions for broader PFM outputs (budget transparency and clarity), no research regarding budget classification and its direct contribution to health was found. This could be a potential area for more research.

More research is also needed on e-procurement such as the procure-to-pay tool used in Kenya. As seen in one study, this is a good option for health system managers and procurement agencies to improve PFM and health outcomes simultaneously by reducing corruption time lag and increasing transparency.

ANNEX A: REFERENCES IN ALPHABETICAL ORDER

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ANNEX B: KEY INFORMANTS

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