

Decision-making autonomy in Ugandan health facilities:

Does decentralization of health systems translate into decentralization of authority?

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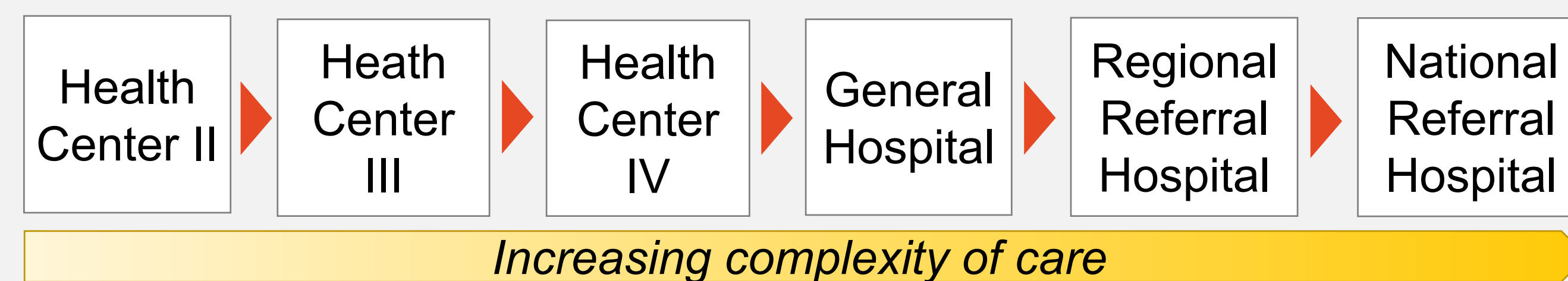
Introduction

Decision space
"The decision-making authority demonstrated by entities in an administrative hierarchy"

De Facto
Authority informally arising from emergent facility needs

De Jure
Authority allocated via enumerated policies

The Ugandan Healthcare System



- Uganda extensively decentralized its healthcare system beginning in the 1990s by shifting decision-making authority away from its national Ministry of Health (MOH)
- Today, *de jure* authority over most managerial functions (i.e. general administration, personnel management, managerial oversight) rests with **district-** and **facility-** level authorities¹

Managerial areas	De jure decision-making authority	
	Public Facilities	Private Facilities
Facility administration	Facility personnel, Health Unit Management Committee	Facility personnel
Personnel management ¹	District Health Service Commissions	Facility personnel
Supply chain management ²	Facility personnel (if hospital or HC IV)	Facility personnel
	Ministry of Health (if HC III or II)	

- Research has shown that staff characteristics and variations in local need result in different *de facto* decision spaces for Uganda district-level administrators whose *de jure* decision spaces are, in theory, supposed to be equivalent^{3, 4}

Objectives

- Determine degree to which *de facto* decision space for health facility managers differs from their intended *de jure* decision space
- Determine whether significant associations between *de facto* decision space and managerial performance exists for facility managers

Methods

- From data collected through the Performance Monitoring for Action (PMA) 2020 survey platform, the following measures were derived:

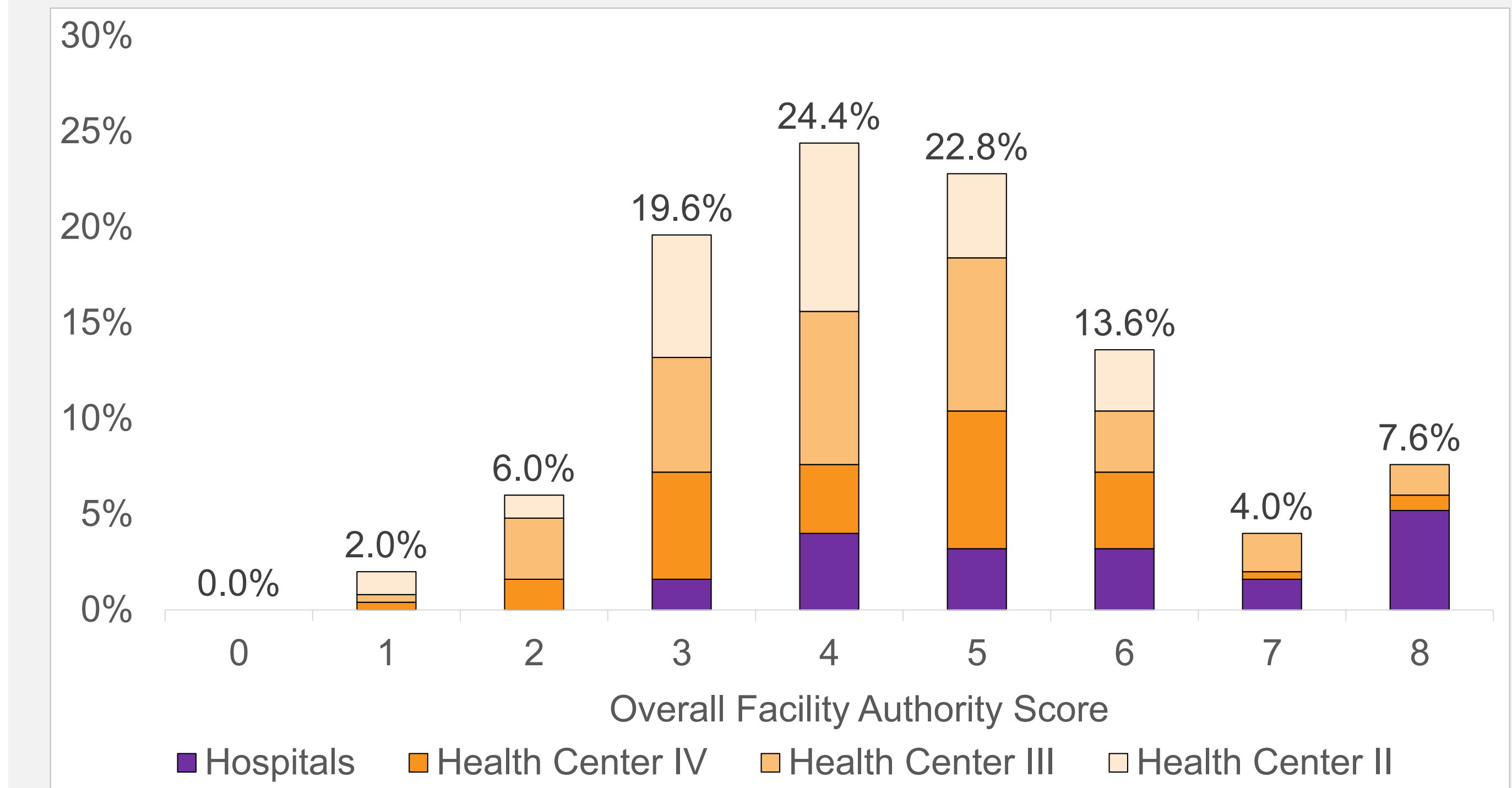
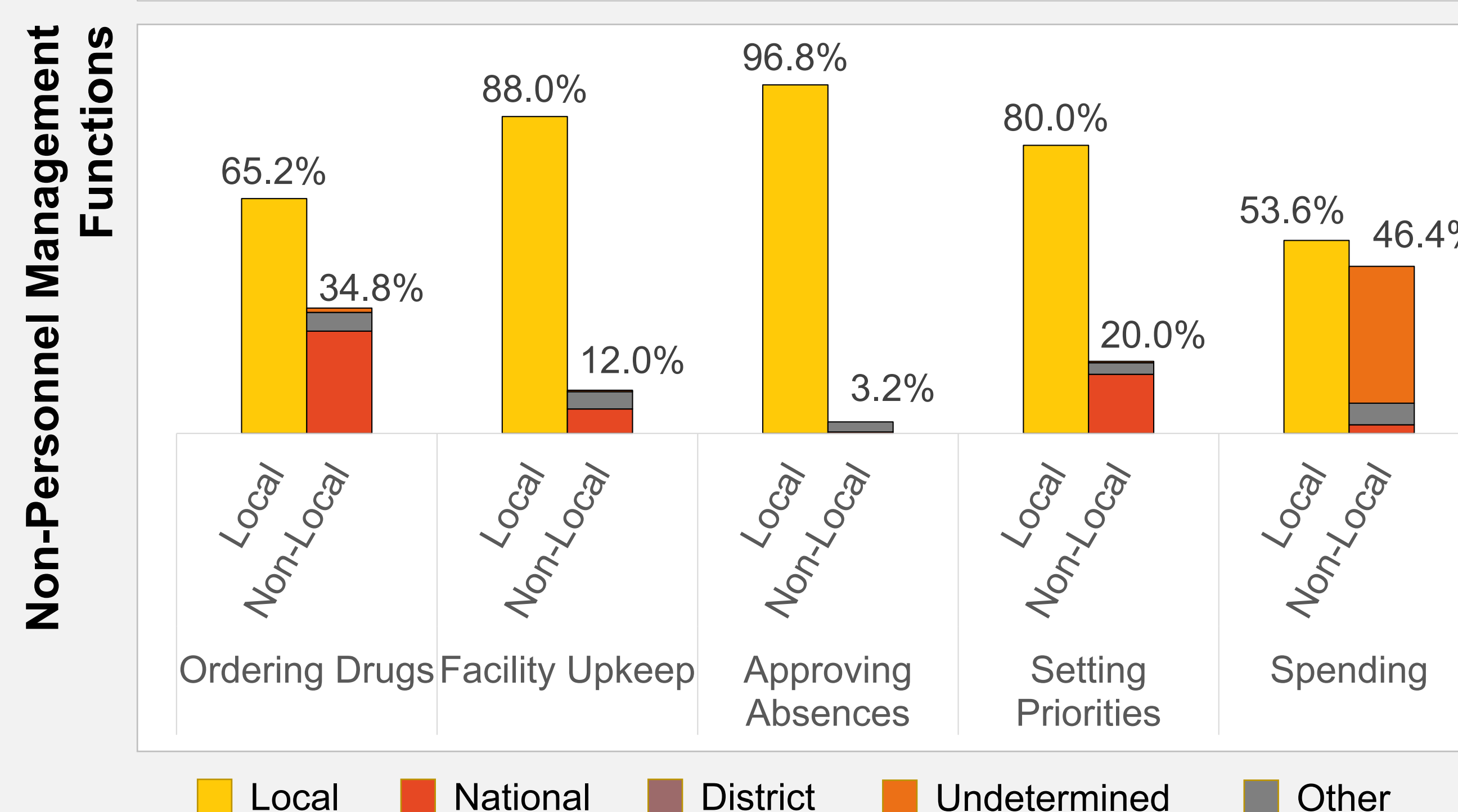
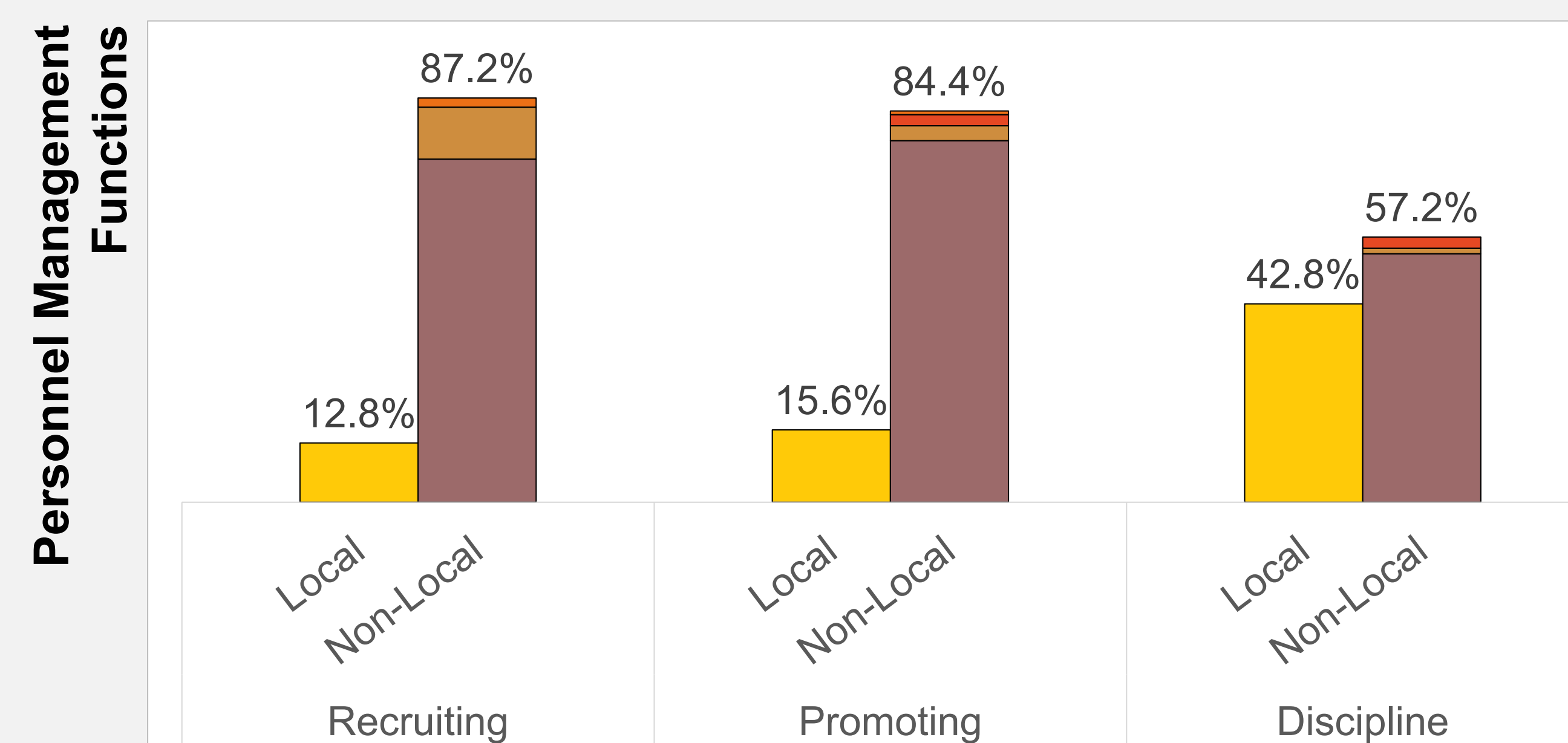
- Managerial Performance Measures:** Three scales measuring essential drug availability, quality improvement, and performance management.
- Authority Level Questions:** Eight multiple-choice questions measuring decision-makers responsible for specific facility decisions

Authority Levels			
National	District	Facility	Undetermined
Authority Level Questions		Possible responses	
According to you, which of these groups has the most say in...		<ul style="list-style-type: none"> Ministry of Health District Health Service Commission Chief Administrative Officer District Health Officer/Team Director of the facility Health facility/Hospital Management Committee Doctors/facility staff Community Owner No response Other* 	
Ordering drugs			
Facility upkeep [±]			
Recruiting [±]			
Promotion [±]			
Disciplinary action			
Approving absences			
Setting priorities			
Spending funds			

* = answers of other were grouped separately from these authority levels; ± = district authority level responses are possible responses for these questions

- From our authority level questions, we derived two variables:
 - Authority level distributions for individual questions:** A categorical variable determining primary authorities responsible for specific facility actions.
 - Overall facility authority score:** An ordinal variable (0-8) measuring the total number of times a respondent answered an authority level question with a **facility-level** authority. This was our metric for overall *de facto* decision space

Results



- Private health facilities had significantly higher overall facility authority scores compared to public health facilities ($t = -9.78, p < .001$)
- Hospitals and HC IVs had significantly higher drug-ordering autonomy than HC IIIs and IIs ($\chi^2 = 25.11, p < .001$)

Managerial Performance Measures	Level of Local Autonomy				Relative (%) Difference in Scores
	90th Percentile		10th Percentile		
	Predicted	SE	Predicted	SE	
Essential Drug Availability	0.678	0.026	0.559	0.019	21.3%*
Quality Improvement	10.5	0.064	10.4	0.046	1.4%
Performance Management	6.29	0.059	6.38	0.050	-1.4%

Conclusions

- Managerial functions requiring less logistical input (i.e. discipline) are more likely to see differences in *de jure* and *de facto* decision space
- In Uganda, policies that reduce drug-ordering autonomy for smaller facilities while increasing it for larger facilities have largely been adopted
- Although we found *de facto* decision space to be positively associated with essential drug availability, managerial autonomy alone is not sufficient for improving overall healthcare managerial performance.

Works Cited

- Health Service Commission 2017, *Vision and Mission*, viewed 2 June 2020, <https://www.hsc.go.ug/visionMission.php>
- Bukuluki, P, Byansi, PK, Sengendo, J, Nyanzi ID, Banoba, P, Kaawa-Mafigiri, D. "Changing from the 'Pull' to the 'Push' System of Distributing Essential Medicines and Health Supplies in Uganda: Implications for Efficient Allocation of Medicines and Meeting the Localized Needs of Health Facilities." *Global Health Governance*, vol 6
- Alonso-Garbayo, A, Raven, J, Theobald, S, Ssengooba, F, Nattimba, M, Martineau, T. "Decision space for health workforce management in decentralized settings: a case study in Uganda." *Health Policy and Planning*, vol 32, suppl. 3, pp. 59-66
- Bossert, TJ, Mitchell AD. "Health sector decentralization and local decision-making: Decision space, institutional capacities and accountability in Pakistan." *Social Science & Medicine*, vol 72, pp. 39-48

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