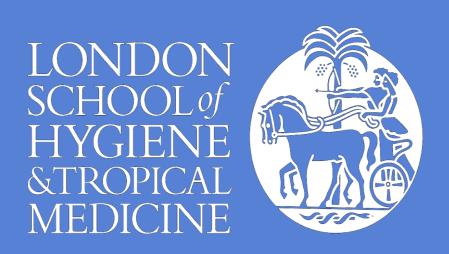
What do health workers do, and why? A study of the activities performed by primary healthcare workers in Sierra Leone

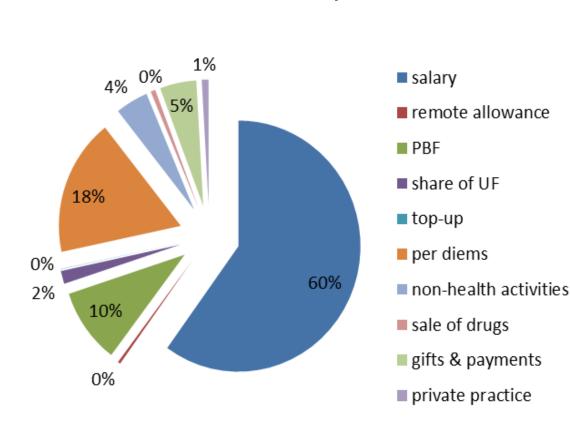


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Background

This study is part of a broader research which focuses on the **complex remuneration** of health workers in

rural Sierra Leone (carried out before the Ebola outbreak).



We found that nurses working in primary health facilities receive a variety of incomes and we estimated their amount, as shown in the figure.

We also noted significant differences between districts (1).

The study adopted a **mixed-method design**. The quantitative sample included 266 primary health workers in 3 districts of Sierra Leone, and interviews were carried out with 39 of those health workers.

Ask me about the **innovative methods** we used for data collection and about the **limitations** of our data.

Hypotheses

Our next objective was to explore the *consequences* of the complex remuneration, focusing on the tasks and activities that health workers carry out in their productive

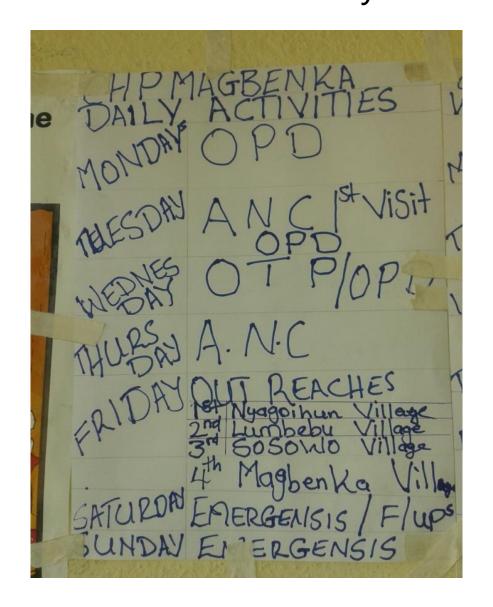
time. We asked: could health workers choose
the activities that they do, in order to
maximize their incomes? For example,
could health workers give more time to activities
which allow earning per diems or to services included
in the Performance based financing (PBF) bonus
calculation, and neglect other tasks?

This hypothesis is supported by **agency theory** which predicts that multitasking agents will aim to maximize earnings while minimizing effort. As a consequence, if tasks are substitutes, stronger incentives to perform one task drive the agent's effort away from the (less incentivized) tasks (2). This is based on the **assumption that workers can make unconstrained labor supply choices**. This has proven a plausible hypothesis in other settings. In **Nigeria**, 56% of health workers reported to be giving priority to activities that enabled earning per diems (3). In **Malawi** and **Uganda**, health managers stated that per diems influence their allocation of time (4)

Results

Question #1 Are labor supply choices unconstrained?

No. In Sierra Leone, we found that primary health workers have little discretion on what they do:

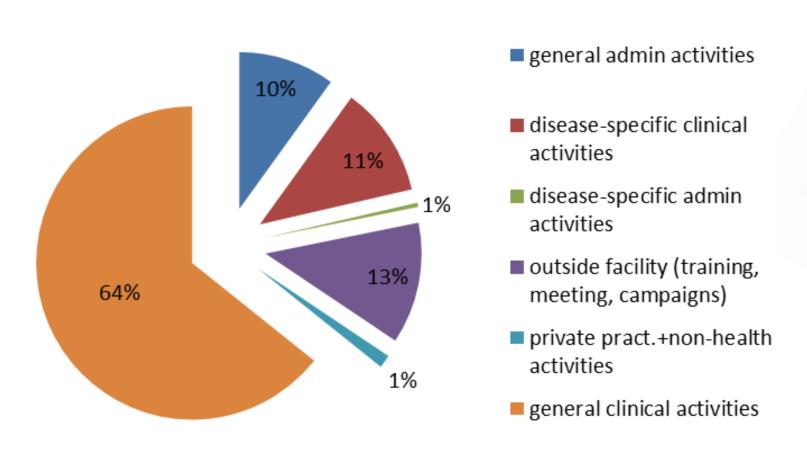


- 1. because of a **facility schedule** which defines which services to carry out each day (see photo),
- 2. because of the presence of a **network of actors** providing them with **material and technical support**, i.e., providing inputs (drugs, vaccines, nutritional suppl.) and regular supervision, introducing reporting requirements, offering training opportunities, being present during the delivery of

(certain) services. This network does not include only the **District Management Team** to which health workers are formally accountable, but also **NGO** staff which interact almost daily with health workers → *The provision (or not) of such support, as well as the offer available in terms of training and workshops, is key in influencing and constraining what health workers do.*

Question #2 What do health workers do?

The quantitative analysis provides a description of the activities that health workers do, given these influences and constrains.



However, this distribution of time varies between health workers. Regression analysis shows that, it is not the individual or facilities variable which mostly influence what health workers do, but rather the district in which the health workers is deployed. This confirms our finding that it is the patterns in the presence of NGOs and their provision of technical and material support for specific activities which is driving the health workers' time allocation.

For example, in Moyamba, the district where health NGOs are focused mostly on supporting nutrition, health workers carry significantly more nutrition activities (p=0.000 compared with Bo and 0.012 with Kenema).

Key messages

What health workers do, how much time they

spend within or outside the facilities, or on general or diseasespecific tasks is a central element in determining their performance and shaping service delivery. Our study highlights that, in this setting where service delivery largely relies on external actors:

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- it is *not* the health workers' remuneration (and their income maximization strategies) that defines the time spent on activities
- although District Medical Teams, to whom health workers are accountable, can influence providers' practices (5), they are not the only actor doing so
- what health workers do is influenced by the presence of a network of actors providing technical and material support at facility level, who are able to shape local health priorities and, consequently, health workers' activities. In turn, this can explain the significant differences in health workers' income between districts.

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The views expressed in this poster do not necessarily reflect the UK government's official policies.

All research outputs are available at: https://rebuildconsortium.com







