

Can Performance Based Financing Improve Quality of Healthcare in Nigeria?



Dr Yewande Ogundeji yewande.ogundeji@hsdf.org.ng



Introduction

- Performance based financing (PBF) also known as results based financing (RBF) schemes are increasingly adopted in many low and middle-income countries (LMICs) to improve health services across different contexts and different clinical areas
- RBF is a system of health financing that employs the transfer of money or/and material goods conditional on taking a measurable action or achieving a predetermined goal (Eichler, 2006).

Models

- Supply side RBF/PBF (payment of incentives to healthcare providers)
- Demand side RBF (with no supply component e.g. Conditional cash transfers/voucher schemes)
- Demand side RBF (with a supply component)

How PBF works

--A strategy to improve health care delivery that relies on the use of market or purchaser power using financial incentives that reward providers for the achievement of a range of objectives, including delivery efficiencies, submission of data, and improved quality and patient safety (McNamara, 2006)

2



Introduction

Evidence

- Mixed results- Systematic reviews and primary studies show mixed results: improves some indicators but not others e.g. Rwanda. Also no evidence of effectiveness in Uganda (Van herck et al., 2010; Witter et al., 2013; Ssenoogba et al., 2012; Basinga et al., 2011)
- Effectiveness likely dependent on design features, contexts, and implementation factors (Van herck et al., 2012, Ogundeji et al. 2016)
- Poor evaluations studies (lack of adequate/convincing controls) especially in developing countries (Witter et al., 2013)-evidence suggests such evaluations are likely to show exaggerated positive effects (Ogundeji et al., 2016)
- Sparse evidence on cost effectiveness-heavy investments but what is the Value for money???
 - Unanswered questions about financial sustainability and sustainability of effect

2

HEALTH STRATEGY AND DELIVERY FOUNDATION

Context: the Nigerian journey

- A Large scale PBF scheme also known as the Nigerian State Health Investment Project (NSHIP) through a World Bank Credit (150 million USD) was implemented by the National Primary Health Care Development Agency (NPHCDA) as a 6 year pilot scheme starting 2012 in 3 States (Adamawa, Ondo, and Nasarawa)
- Implementation was in response to accelerating the rate of meeting the health related MDGs (now SDGs) targets, particularly maternal, child and other primary health care services
 - Nigeria has widely documented poor Maternal and child health outcomes and low utilization rates (MMR-567 per 100,000 births, U5 mortality-128 per 1000, institutional deliveries-36%, SBA-38%) (NDHS, 2013)
 - Core challenges persist in the Nigerian healthcare system, such as poor health worker motivation, absenteeism, inadequate infrastructure, lack of transparency and poor record keeping (Okafor 2009; Akinwale 2010)



Figure 1 Map of Nigeria

MDGs: Millennium development goals SDGs: Sustainable development goals MMR: maternal mortality ratio U5: under 5 SBA: skilled birth attendance



Context: the Nigerian PBF model is 'well designed'

Core design feature	Description
Who receives the incentive	Health facilities (PBF): incentives paid based on performance 50% earned by individual health workers as bonuses based on 'performance'; 50% of funds for operational expenses Health facilities (DFF): incentives paid regardless of performance; 100% of funds for operational expenses State and Local Government: Incentives also known as DLIs based on indicators such as early disbursements of incentive payments to health facilities and quarterly supervision visits
Type of incentive	Bonuses
Type of payment	Monetary (Cash)
Size of incentive	Large
Payment mechanism	Absolute targets (pay per increase in incentivized activity or quality measure e.g. availability of drugs at the health facility)
Performance measure	Absolute: only the performance score of the health facility is considered
Domain of performance measured	Within clinicians control (Processes e.g. health service delivery such as ANC and hygiene/cleanliness of the health facility)
Timing of payment	Quarterly: health facility, Monthly: health workers

- · The main aim of the Nigerian PBF scheme is to increase the delivery and utilization of high impact maternal and child health services and to improve the quality of primary care at selected health facilities in the participating States (NPHCDA, 2012).
- The PBF strategy has the potential to address the core challenges that persist in the Nigerian healthcare system, such as poor health worker motivation, inadequate infrastructure, lack of transparency and poor record keeping
 - Encouraging' preliminary results has spurred expansion to a few more states in Nigeria...

DFF: Decentralized Facility financing DLI's: Disbursement Linked Indicators



We explored trends in improvements and sought explanation for changes observed (Methods)

RATIONALE

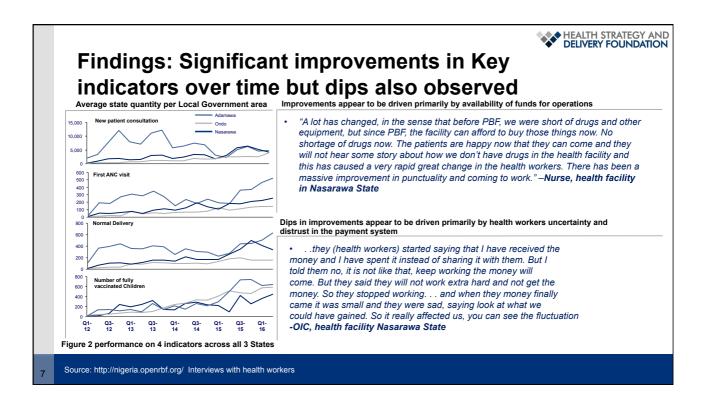
Given the mixed evidence on effectiveness and the paucity of systematic research on why (or why not) PBF works in Nigeria and LMICs in general, this study sought to address this gap in evidence.

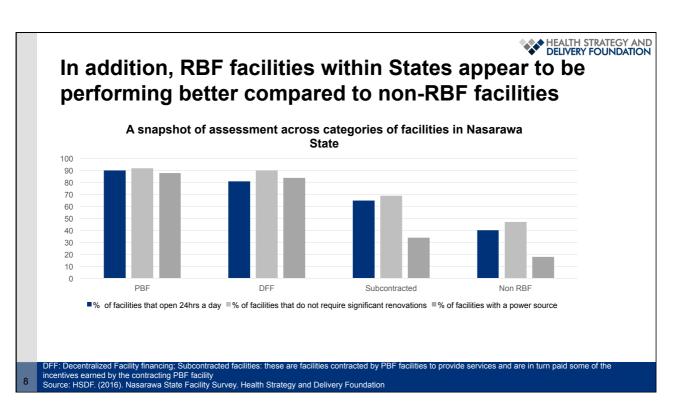
AIM

This study investigates improvement trends in 4 key indicators (new out patient consultations, fully vaccinated children, Antenatal care, and institutional deliveries) and reasons for changes observed in the PBF scheme implemented to improve quality and utilization of basic health services in Nigeria.

METHODS

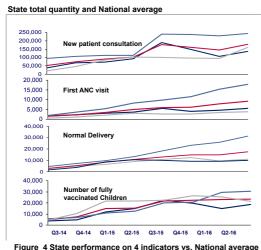
- · Improvement trends were explored using before and after method using quarterly time points ranging from 2012 to 2016 in the 3 States (Adamawa, Ondo, and Nasarawa). Trends were also compared with the National average
- · Semi-structured interviews with 36 health workers in 2 states (Nasarawa and Ondo state) were used to investigate reasons and explanations for observed changes







Findings: States improvement trend over time are similar to the National average



- · There is also a similar improvement trend on the national average on all indicators-with similar or better utilization rates
- PBF schemes require rigorous evaluations

Figure 4 State performance on 4 indicators vs. National average

Source: http://nigeria.openrbf.org



Conclusion and implications for future research

- PBF has shown potential in improving quality of care and utilization rates of health services in Nigeria. However, PBF should be scaled-up with careful consideration, using optimal design features and contextual conditions and evaluated with adequate control groups.
- To ensure maximum effectiveness and cost effectiveness of PBF schemes, there are still a number of unanswered questions which present opportunities for future research and/or debates
 - Why do PBF interventions work/why not? Questions about what the main driver of behavior change or improvement are left unanswered. Given the multifaceted nature of PBF- bonuses, funds for operational expenses, increased supervision, record keeping (perhaps a combination of all). More PBF case studies are needed to enrich the evidence base
 - Fiscal sustainability and cost effectiveness: most PBF schemes in LMIC are run on donor funds/loans. Given its potential of effectiveness and high cost implications, it is important to have policy debates and dialogues on how to ensure that funding is sustained even after donor funding runs out. In addition, more evidence on cost effectiveness needs to be generated to ensure value for money



References

- 1. AKINWALE, A. 2010. The menace of inadequate infrastructure in Nigeria. African Journal of Science, Technology, Innovation, and Development 2, 207-208.
- 2. BASINGA, P., GERTLER, P. J., BINAGWAHO, A., SOUCAT, A. L. B., STURDY, J. & VERMEERSCH, C. M. J. 2011. Effect on maternal and child health services in Rwanda of payment to primary health-care providers for performance: an impact evaluation. The Lancet, 377, 1421-1428.
- 3. EICHLER, R. 2006. Can "Pay for Performance" Increase Utilization by the Poor and Improve the Quality of Health Services? Discussion paper for the first meeting of the Working Group on Performance-Based Incentives Centre for Global Development.
- 4. HSDF. (2016). Nasarawa State Facility Survey. Health Strategy and Delivery Foundation
- 5. MCNAMARA, P. 2006. Foreword: payment matters? The next chapter. Med Care Res Rev, 63, 5S-10S.
- 6. NPHCDA 2012. Performance Based Financing User Manual. Abuja, Nigeria: https://nphcda.thenewtechs.com/cside/contents/docs/NSHIP-PBF manual 2012 version.pdf.
- 7. NIGERIA DEMOGRAPHIC AND HEALTH SURVEY (NDHS) (2013) National Population Commission
- 8. OGNDEJI, Y.K. JACKSON, C. SHELDON, T. OLUBAJO, O. IHEBUZOR, N. (2016). Pay for performance in Nigeria: the influence of context and implementation on results. Health Policy and Planning, 022016, 1–9
- 9. OGUNDEJI, Y.K. BLAND, M. SHELDON, T. (2016). The effectiveness of payment for performance in health care: a meta-analysis and exploration of variation in outcomes. Health Policy (In press)
- 10.0KAFOR, U. V. 2009. Challenges in critical care services in Sub-Saharan Africa: perspectives from Nigeria. Indian J Crit Care Med., 13, 25-27.
- 11. SSENGOOBA, F., MCPAKE, B. & PALMER, N. 2012. Why performance-based contracting failed in Uganda An "open-box" evaluation of a complex health system intervention. Social Science & Medicine, 75, 377-383.
- 12.VAN HERCK, P., DE SMEDT, D., ANNEMANS, L., REMMEN, R., ROSENTHAL, M. & SERMEUS, W. 2010. Systematic review: Effects, design choices, and context of pay-for-performance in health care. BMC Health Services Research, 10, 1-13.
- 13.WITTER, S., FRETHEIM, A., KESSY, F. L. & LINDAHL, A. K. 2012. Paying for performance to improve the delivery of health interventions in low- and middle-income countries. Cochrane Database Syst Rev, 15.

11