Developing and Validating Innovative Methods to improve measurement of Out-Of-Pocket payments for health services in Low and Middle-Income countries



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Introduction

- There is an increasing demand for disease-specific health expenditures from countries and development partners
- There is the need to collect better data on OOP expenditures and particularly linked to diseases.
- Current approaches to estimate OOP payments rely on data from national surveys, like LSS and Household Budget Surveys (HBS).



Existing data for Financial Protection Tracking and respective limitations

Existing Surveys

General Household Survey

Health Surveys

Challenges

 Many different surveys measure household health expenditures, and the question modules are not standardized

The number of specific health items, whether they are services, medicines, or supplies or equipment, varies drastically

OOPHE Share of Total Health Expenditure





The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. The borders of the map provided reflect the current political geographic status as of the date of publication (2015). However, the technical health information is based on data accurate with respect to the year indicated (2013). The disconnect in this arrangement should be noted but no implications regarding political or terminological status should be drawn from this arrangement as it is purely a function of technical and graphical limitations.







Objectives of the IHOPE Project

- 1. Improve estimation of OOPs in a household survey
- Develop a set of questions to facilitate OOP specific disease measurement
- 3. To test and develop interim/alternative approaches in HH surveys
- 4. To develop reliable substantiated tool to measure household expenditures at different details of items

5. To provide a socio-economic context to interpret OOPs



Some Research Questions

 What is the optimum number of questions on health expenditures that can be included in household expenditure, income or budget surveys (HECS) to obtain accurate estimates?

2) What is the optimum number of questions on non-health expenditures that can be included in household health surveys (HS) to obtain accurate estimates?

3) What is the optimum number of questions that are needed to identify OOPs?

4) Which recall period is more accurate for OOPs? (2 weeks, 6 months versus 4 weeks, 1 year)





HLANONI . HLAN

Premises of this OOPHE validation

Main source of errors

- 1. Sampling error;
- 2. Bias from nonsampling error
- Insufficient frequency of repetition

 Defects in the design and implementation, or limitations in human ability to adequate information convey or elicit the true response-mainly:-



A) Fail to recall

B) Fail to report

Fail to Recall?

- Evidence and remedies
 - Recall period.....Shorter reference period is more recalled (Eg. 2-weeks is more recall than 4weeks)
 - **Small recall period---** Fewer events are being captured
 - Questions detail--- More detail expenditure elicitation (single item<4-items<8-items)
 - *? too many questions-----are difficult to implement(it is a load to respondents)



It is to answer this.....Expanding recall period Vs Number of items



"100% accuracy

(Provider level data)"



Randomization for the Validation of general household survey



Health Survey Validation Randomization



Versions of HH expenditure





How to get accurate data at provider level-Realities and approaches?



The first step in this validation study start from how we have reliable documentations at each site where the provider level data that we assume as Gold standard will be obtained. In this, paper based or electronic based or both paper based and electronic based documentation will be designed and installed within each health facility.

Even after getting into the health facility-They pass through the following procedures



Suggested approaches to get the provider level data



Sampling Techniques



- 1. Navrongo, Ghana
- 2. Ouagadougou, Burkina Faso
- 3. Filabavi, Vietnam

Those green once (three in numbers) will be for the general household oops validation. Households in the cluster will be randomly selected proportional to the required sample size to each randomization blocks.

Designs to test for the in-patient and low prevalence health problems recall periods

W1	W2	W3	W4	This is to patient) Has the 2) When How m	o test the responde did the h uch did y	est the health care utilization in the last 4 weeks((for the inpatient and low prevalence out- spondent ever used health care service in the last 4 weeks 1) yes 2)No id the health utilization happen I) 1 st week ii) 2 nd week iii) 3 rd week iv) 4 th weeks th did you spend									
M1				M2	M2	This i 1) Ha 2) Wh i) 1 ii) 1	 This is to investigate health care utilization in the last three months Have you used health care service in the last three months yes yes b-no When was the time did the health utilization happen 1st month 2nd month 3rd month combinations of How much did you spend 								
M1				M2	М3	M4	M5	M6	This is to investigate the health care utilization in the last six months. 1) Have the respondent ever used health care service in the last six months 1) yes 2)no 2) When was the time did the health utilization happen 1) 1 st month 2 nd month 3) 3 rd month 4) 4 th month 5) any combinations						
M1				M2	М3	M4	M5	M6	M7	M8	М9	M10	M11	M2	The same questioning approach will be made by considering the respective months in the last one year



Common symptoms collected from past questionnaires VS Diagnosis from NHA

	Symptoms		Diagnosis						
Mala	aria/Fever	Ē	Infectious and parasitic disease I.I. HIV/AIDS and Other Sexually Transmitted Diseases (STDs) I.I. HIV/AIDS and Concentrational Infections (Oth)						
Diar	rrhea	Intra intra Alboration Store Intra Alboration Store Intra Alboration Store HUY/AIDS Intra Alboration Store TB/HIV							
HIV	//AIDS	=	Other OI and HIV Unspecified HIV/AIDS and OIs (n.e.c.)						
Hea	adache			1.1.3 Unspecified HIV/AIDS and Other STDs					
Di: Na	How to go for thes	se dise	a	se symptoms and					
Re	Ū I	•							
Bc	a	iagnos	znoses						
Cc		-							
Jo	We will review the 10 top health problems								
Hi									
BI	and how they are documented in the								
Lo	·								
Re	respective HDSS, and then adjustment will								
Ην	he made to the lie	te of th	s of the questionnaire to						
Νι	be made to the is	e questionnaire to							
Ne	be fielded with ou	it dist		rhing the existing					
Di	be neided with or								
Ca	diagnosis category								
Me	ulugin								
Ora	l disease			Sense organ disorders Sense organ disorders Oral diseases					
Śkir	n disease		9 4. 10 Other and unspecified non-communicable diseases (n.e.c.)						
Othe	er, specify	v. v.	V Injuries VI Non-disease specific						
HLD.		v.	п	Other and unspecified diseases/conditions (n.e.c.)		F			

Uner and unspecified diseases/conditions (n.e.c	VII	Other and unspecified diseases/conditions (n.e.c.
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Developing scalar to annualize the out-ofpocket health expenditure

Once we have captured the data with the different modules that can be considered as baseline further interview will be made through telephone in line with their respective recall period!

We will set up a center to facilitate the implementation of these approaches!

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Work-Pl	an				
Activities	Nov- Jan/2015	Feb- April/2016	May 2016 – Jan 2017	Feb-April 2017	May-December 2017
Ethical approval	XXXXXXXX				
Round-I data collection		XXXXXXXXX X			
Data on scalar derivation			XXXXXXXXX X		
Data collection on in- patient and low prevalence			XXXXXXXXX XX		
Round-II data collection				XXXXXXXX	
Report writing & Papers	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXX



Thank You!

