

THE EQUITY TOOL

Innovative – Easy to use – Quick – Free



Overview

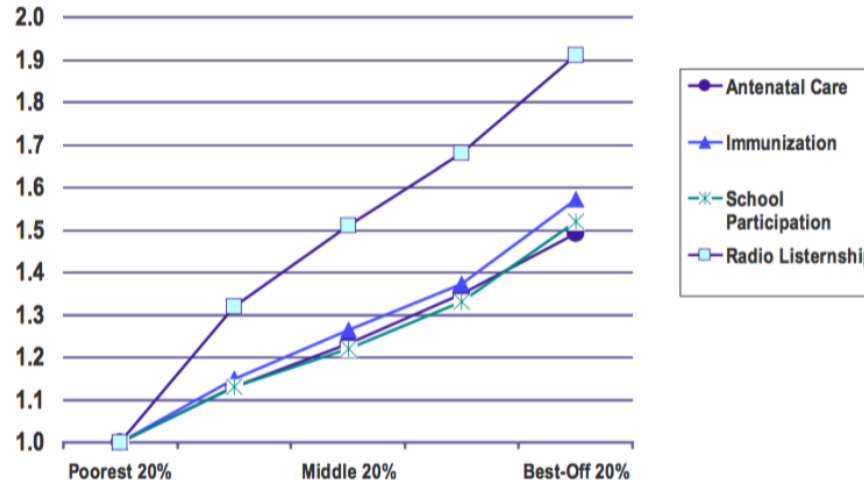
- Why measure equity?
- Current approaches
- New approach
- Introduction to the EquityTool



Introduction

- Why do we care about reaching the poor?
- Why do we want to measure our program services?

Figure 2. Economic Inequalities with Respect to Selected Indicators of HNP Status Determinants



Davidson R. Gwatkin, Shea Rutstein, Kiersten Johnson, Eldaw Suliman, Adam Wagstaff, and Agbessi Amouzou. Socio-Economic Differences in Health, Nutrition, and Population (Washington, D.C.: The World Bank, 2007).



Objective: Equity Assessment

- CORE Group acknowledges that developing strategies to address inequity requires understanding the current conditions
- Social Franchisors also came to similar conclusions, and developed a unified process to do so
- Our perspective: clinic-based data collection




















Various Methods to Measure Wealth

- Social Franchising Metrics Working Group
- Considered three methods (PPI, WI, MPI)
 - Additional approaches exist, such as participatory methods
- MPI: uniform across countries, so limited relevance; can be difficult to interpret



Initial Selection Criteria

Criteria	Wealth Index	PPI
Easy to Collect and Interpret	<ul style="list-style-type: none">  Easy to collect  Difficult to calculate  Quintiles widely used/understood  Somewhat difficult to interpret 	<ul style="list-style-type: none">  Easy to collect  Easy to calculate  Easy to interpret poverty threshold
Low Cost	<ul style="list-style-type: none">  Inexpensive  Based on publicly-available DHS 	<ul style="list-style-type: none">  \$20,000 - 25,000 USD/country  High upkeep costs
Comparable to National Context	<ul style="list-style-type: none">  Wealth quintiles accurate and validated comparison to national distribution  Easy subgroup analysis 	<ul style="list-style-type: none">  Percent of clients under poverty line easily comparable to national poverty rate  Difficult/impossible subgroup analysis <i>e.g.: just urban, or just FP clients</i>
Comparable Across Countries	<ul style="list-style-type: none">  Can discuss percentage of clients that fall within bottom 40%, but measure is relative to a country 	<ul style="list-style-type: none">  Percentage of clients under \$1.25/day standard across countries

Piloting Process

- PPI & Wealth Index piloted in 5 countries in 2012
- Pilot led to selection of the Wealth Index
- Wealth Index challenges remain
 - Long, complicated questions
 - Interest in a method to simplify



Simplification & Validity

- Preliminary analysis of 16 countries
 - Produced four alternative simplified wealth indices from DHS VI
 - Considered full index from DHS as the gold standard
 - Assessed % agreement and kappa statistic against gold standard
- Expert panel review and discussion
- Conducted 5th (new) analysis based on expert feedback
 - Priorities are reducing respondent burden
 - Utility in urban settings
 - High validity ($k \geq 0.75$)
 - Most relevant groupings (low, middle, high)



Methodology

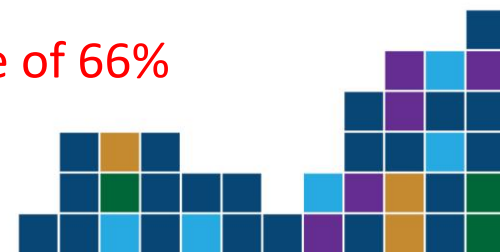
- Select variables which contribute highly to the overall asset index
- Calculate new scores and quintile cut-offs
- Calculate % agreement and kappa statistic against gold standard
- Do the same for an urban only sample
- Find those variables which result in $k \geq 0.75$ for both national and urban sample



Questionnaire length

Country	Original DHS	EquityTool
Bangladesh DHS 2011	33	8
Cameroon DHS 2011	47	9
Ethiopia DHS 2011	36	14
Nigeria DHS 2013	26	11
Pakistan DHS 2012-2013	47	14
Philippines DHS 2013	30	8

Questionnaires could be shortened by an average of 66%



Sample Bangladesh Question

Full DHS

MAIN MATERIAL OF THE EXTERIOR WALLS.

Natural walls

No walls

Cane/palm/trunks

Dirt

Rudimentary walls

Bamboo with mud

Stone with mud

Plywood

Cardboard

Finished walls

Tin

Cement

Stone with lime/cement

Bricks

Wood planks/shingles

Other (specify)

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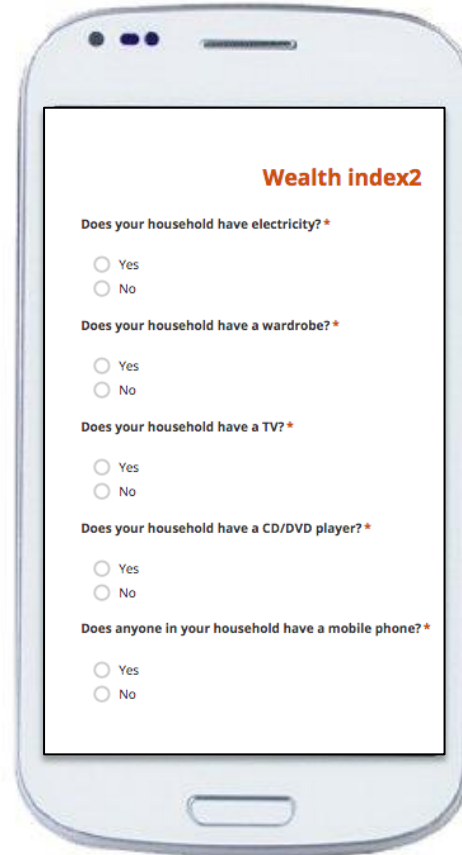
What is the main material of the walls of your household?

Cement walls

Other



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Wealth index2

Does your household have electricity? *

Yes
 No

Does your household have a wardrobe? *

Yes
 No

Does your household have a TV? *

Yes
 No

Does your household have a CD/DVD player? *

Yes
 No

Does anyone in your household have a mobile phone? *

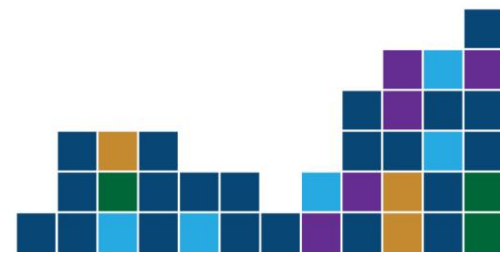
Yes
 No

www.equitytool.org



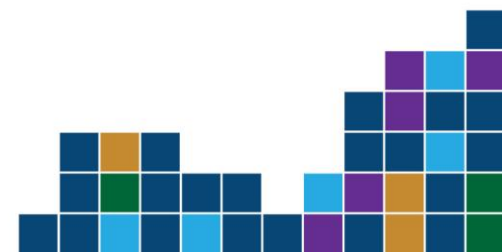
Demonstration

tinyurl.com/BangladeshDemo



Limitations

- Dependent on having a nationally representative survey with relevant asset ownership and household characteristics questions
- Availability of access to survey data
- Timeliness
- Not designed to measure seasonal or transient changes in wealth



Upcoming Features

- Ability to add survey questions to mobile platform
- Sub-analyses (women, HIV, malaria, regions)
- Training videos
- Integration with DHIS 2
- Downloadable excel output
- Downloadable excel questions + weights



Current Countries

- Bangladesh
- Benin
- Cambodia
- Cameroon
- Colombia
- Congo Brazzaville
- DRC Congo
- Dominican Republic
- Ethiopia
- Gabon
- Gambia
- Honduras
- India
- Indonesia
- Liberia
- Malawi
- Mozambique
- Namibia
- Nepal
- Nigeria
- Pakistan
- Peru
- Philippines
- Rwanda
- Senegal
- Tanzania
- Timor-Leste
- Uganda
- Yemen
- Zambia
- Zimbabwe



Coming Soon

- Afghanistan
- Chad
- Egypt
- Ghana
- Guatemala
- Haiti
- India (updated)
- Kenya
- Lesotho
- Mexico
- Myanmar
- Panama
- Nicaragua
- South Africa
- *Others on request*



Collaborators



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