NO EVIDENCE, NO EQUITY

HOW CAN WE DO MORE TO IDENTIFY WHO IS BEING LEFT BEHIND?

Aluísio J D Barros

International Center for Equity in Health Federal University of Pelotas, Brazil







Mega database

115 countries349 surveys

DisseminationMonitoring

Monitoring

Accountability

Science

Patterns and trends

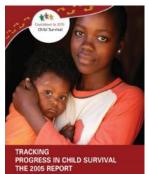
Determinants

Forecasting

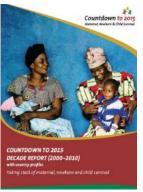


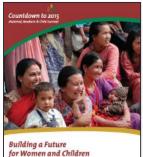
Dissemination

Main partner: Countdown to 2030 (née to 2015)

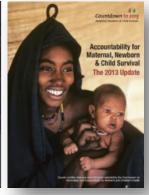


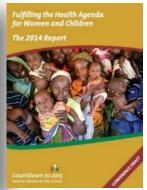




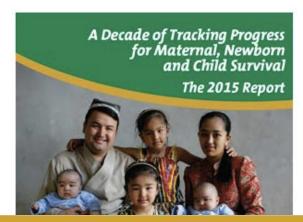


The 2012 Report

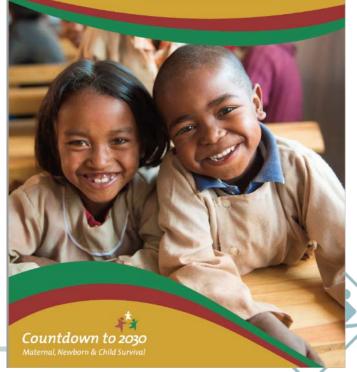




www.countdown2015mnch.org



Tracking progress towards universal coverage for women's, children's and adolescents' health



Equity database

Routine reanalysis of national health surveys

- 115 countries
- 349 surveys
- > 5 million women
- > 10 million children
- Indicators
 - Preventive interventions, treatment of common illnesses
 - Mortality, nutrition, fertility

- Stratifiers
 - Wealth quintiles
 - Woman's education
 - Woman's age
 - Subnational units
 - Urban/rural residence
 - Child's sex
 - And more...



All estimates with std errors & asymmetric CIs



OPEN & ACCESS Freely available online



Measuring Coverage in MNCH: Determining and Interpreting Inequalities in Coverage of Maternal, Newborn, and Child Health Interventions

Aluísio J. D. Barros*, Cesar G. Victora

Postgraduate Program in Epidemiology, Federal University of Pelotas, Pelotas, Brazil

The SWPER index for women's empowerment in Africa: development and validation of an index based on survey data



in 57 low and middle-income countries Carologa Mario Contra C

Fernanda Ewerling, John W Lynch, Cesar G Victora, Anouka van Eerdewijk, Marcelo Tyszler, Aluisio J D Barros



Countdown to 2015: a decade of tracking progress for



Open Access

Coverage and equity in reproductive and maternal health interventions in Brazil:

impressive progress following the implementation of the Unified Health

System

RESEARCH

Giovanny V. A. França[®], Maria Clara Restrepo-Mendez[®], Maria Fâtima S. Maia, Cesar G. Victora and Aluísio J. D. Barros



child health care

Aluisio JD Barrosa



How to improve on equity analyses?

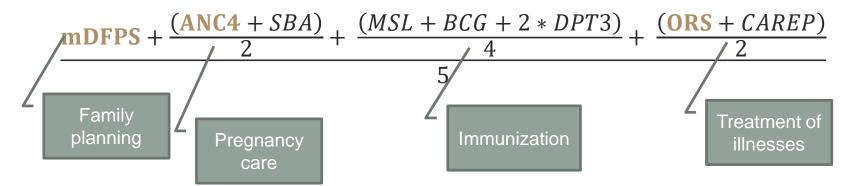
From survey data!

- Combined indicators
- Improved presentation
- Advance with stratifiers
 - → SDG 17.18



Combined indicators - revised CCI

- Composite coverage index
 - Very useful for country comparisons and benchmarking
 - Time trend analyses
- The revised version includes new interventions and some existing ones were replaced



For more finely stratified analyses, a more robust version

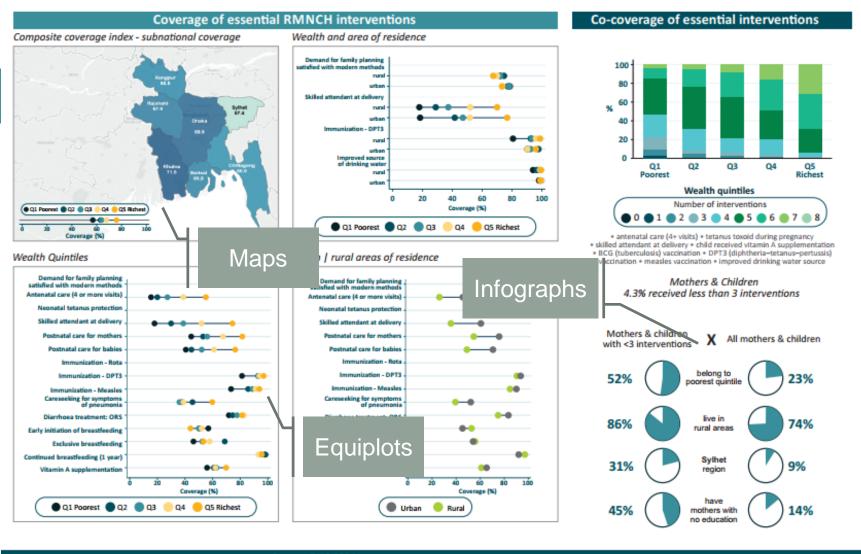
$$\frac{\text{mDFPS} + \frac{(ANC4 + SBA)}{2} + \frac{(MSL + BCG + 2 * DPT3)}{4} + CAREANY}{2}$$

Totally revised country equity profile for Countdown



Bangladesh Equity Profile





The last SDG – more stratifiers!

But not the least

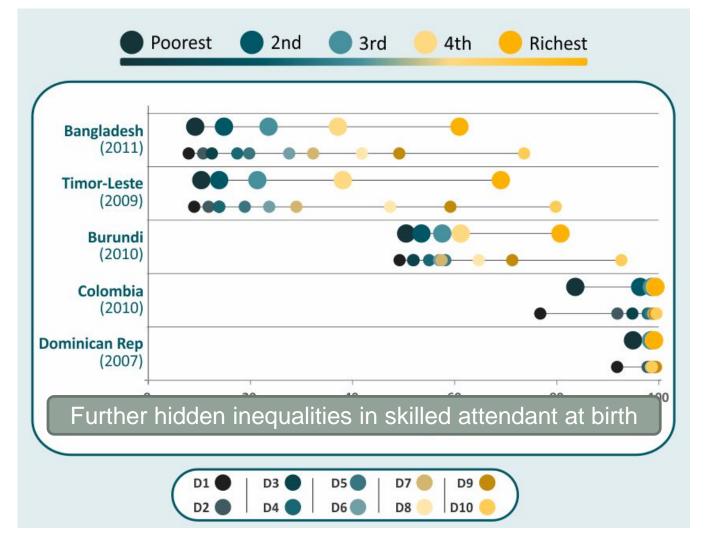


17.18 Data, monitoring and accountability

Calls for disaggregation by

- Income √
- Gender √
- Age ✓
- Race/ethnicity • •
- Migratory status!
- Disability!
- Geographic location • •
- and other characteristics relevant in national contexts

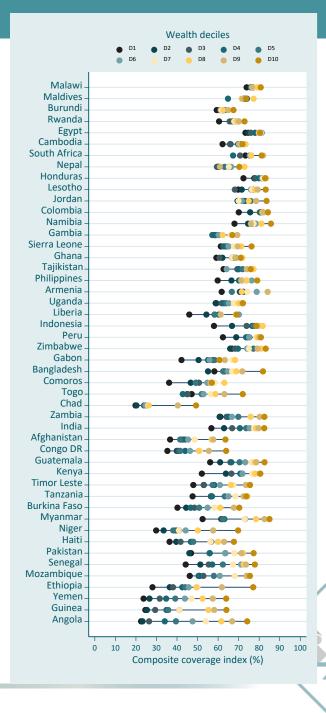
Improving on wealth inequalities Wealth quintiles or deciles?





Deciles highlight differences between rich and poor more than quintiles

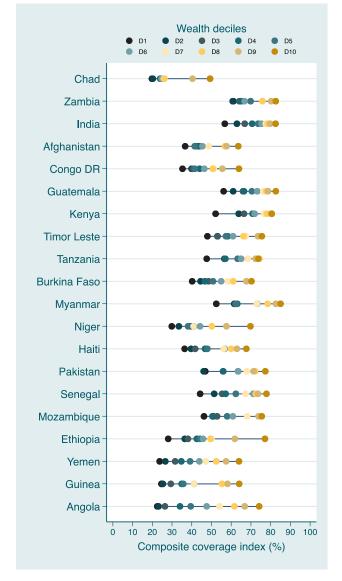
Inequalities in the CCI looking at 10 groups of wealth



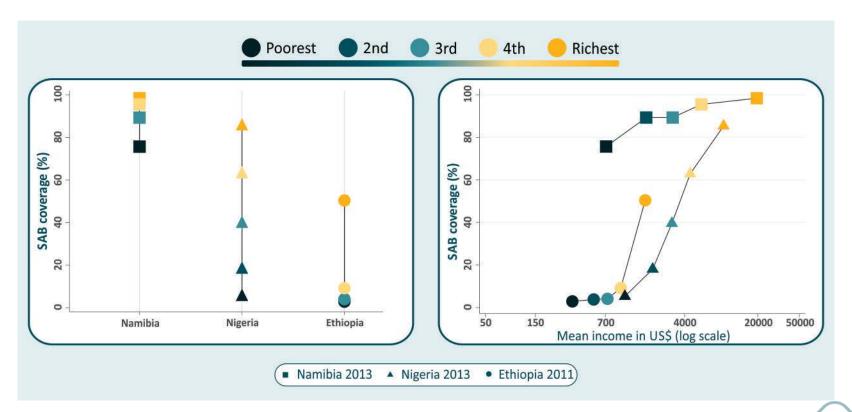
Focusing on countries with high inequality

- SII > 25 pct points
- CCI is an average
 - Attenuates differences and patterns
- Still some countries
 - Richer way ahead
 - Poorer way behind





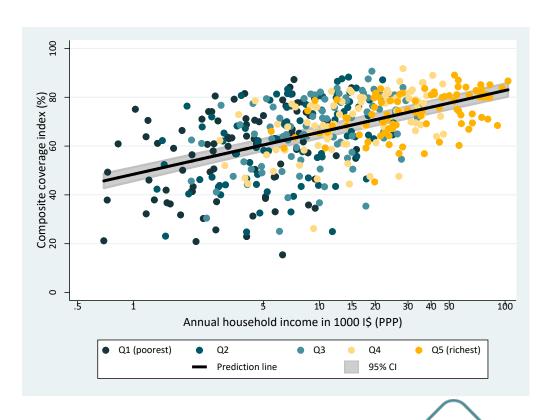
Absolute income in place of relative wealth



Comparing countries at different income levels

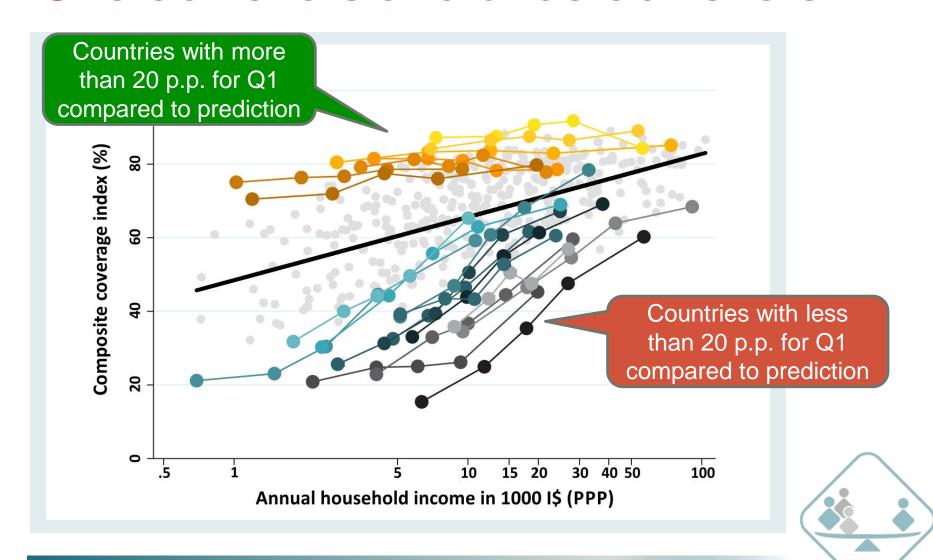


How CCI increases with income



- 94 countries
- 470 quintiles
- Coverage increases with income
- Variability decreases
- Multilevel linear model to estimate expected coverage

Overachievers and underachievers



New approach to gender - women's empowerment: the SWPER

Table 4. Scoring coefficients of the women's empowerment index for Africa.

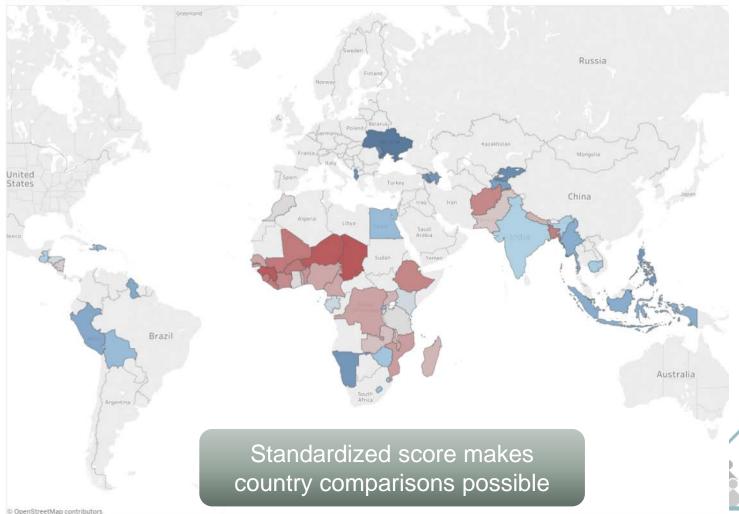
| Label | Attitude to violence | Autonomy | Decision making |
|--|----------------------|-------------|--------------------|
| Beating not justified if wife goes out without telling husband | 0.4561 | -0.0053 | -0.0011 |
| Beating not justified if wife neglects the children | 0.4668 | Attitude to | |
| Beating not justified if wife argues with husband | 0.4592 | violence | |
| Beating not justified if wife refuses to have sex with husband | 0.4364 | -0.0011 | U.U233 |
| Beating not justified if wife burns the food | 0.4046 | -0.0029 | -0.0108 |
| Frequency of reading newspaper or magazine | 0.0358 | 0.3249 | 0.0906 |
| Woman education | 0.0740 | 0.4169 | 0.1211 |
| Age of respondent at first birth Social | | 0.5615 | -0.0775 |
| Age at first cohabitation independe | independence | | -0.0264 |
| Age difference: woman – husband | 0.0097 | 0.1939 | 0.0927 |
| Education difference: woman - husband years of schooling | -0.0169 | 0.1932 | -0.0353 |
| Who usually decides on respondent's health care | 0.0055 | 0.0017 | 0.5634 |
| Who usually decides on large household purchases | Decision | | 0.5642 |
| Who usually decides on visits to family or relatives | making | | 0.5422 |
| Respondent worked in last 12 months | -0.0040 | -0.0589 | 0.1692 |

SWPER World Map

Social Independence

0.804 1.14

Social independence

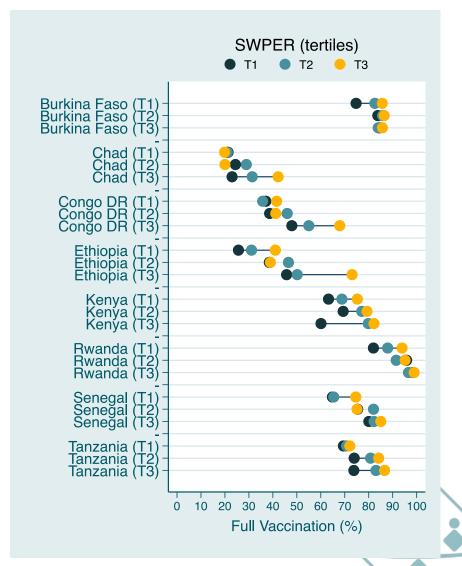


Interseccionality: full vaccination by wealth

and empowerment

Countries by wealth tertiles and empowerment tertiles

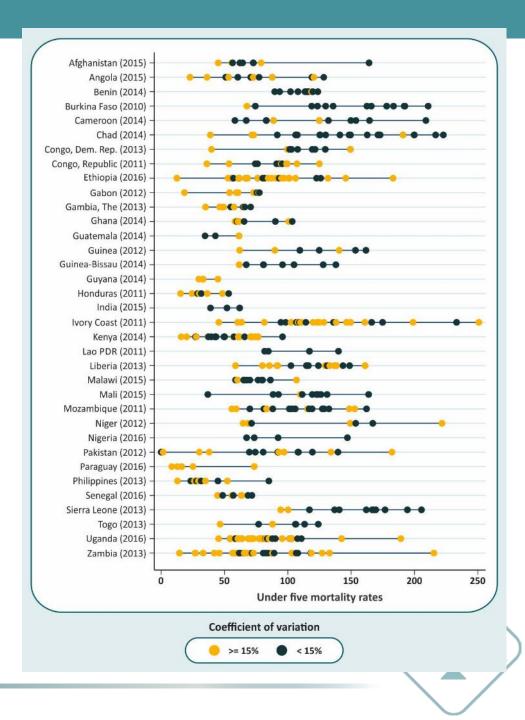
Children of more empowered women tend to present higher levels of full vaccination



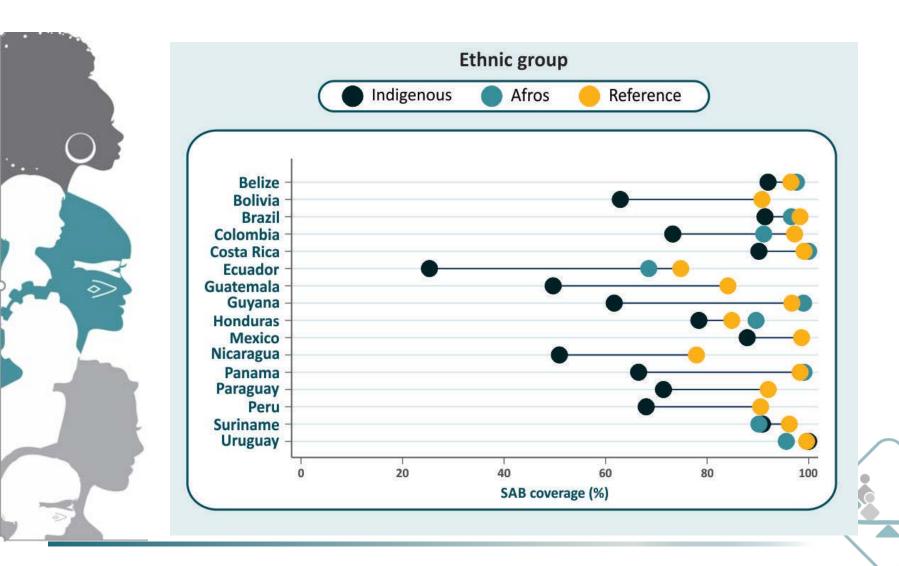
Under-5 mortality rates by ethnicity

Many groups are small and precision is low

But the spread in mortality rates is astounding in some countries



Ethnicity and skilled attendant at birth



What else?

- Intersectionality
 - Wealth x urban/rural
 - Wealth x subnational units, etc.
- Migration
 - Few surveys have information, analyses of specific situations
- Adolescents, age
 - More focus on adolescent health
 - Differences across age groups in RMNCH coverage
- Gender
 - Empowerment, violence, differential mortality, female headed households
- Disability
 - Seldom inquired in surveys, we need more info
- Geography
 - More focus on geospatial analyses
 - Changes in survey design needed for better precision



In summary

- Important advances regarding the use of a wider range of stratifiers
 - The increasing sizes of surveys with time help
- Income can give a fresh understanding of wealth inequalities
- Some stratifiers are easier than others
 - Ethnicity, migration, disability are complicated
 - Hard to classify
 - Limited data from surveys

Investment needed for more data of better quality!



















































Thank you!

International Center for Equity in Health www.equidade.org

Aluisio Barros

abarros@equidade.org



