How Will We Know When We Have Achieved Universal Health Coverage?

The Newly Revamped “Health Equity and Financial Protection Indicators” (HEFPI) Database

Adam Wagstaff – Research Manager, Development Research Group
+ Patrick Eozenou, Sven Neelsen & Marc Smitz
+ previously … Caryn Bredenkamp & Leander Buisman
+ even further back … Davidson Gwatkin, Alex Ergo, et al.
What’s UHC?

• Everyone, irrespective of their means, receives the health services they need...

• ...without suffering financial hardship

We need data on HE and FP to know how close we are to achieving UHC
18 Years of World Bank Data on Health Equity and Financial Protection

**2000**
- 42 countries – all developing countries
- 42 surveys – all DHS
- 34 indicators – all services or outcomes
- Focus on equity in MDG indicators

**2007**
- 56 countries – all developing countries
- 95 surveys – all DHS
- 115 indicators – all services or outcomes
- Focus on equity in MDG indicators

**2012**
- 109 countries – incl. some high-income
- 285 surveys – DHS, MICS & WHS
- 73 indicators – incl. 4 FP indicators
- Not just MDG indicators – some NCD and FP indicators

**2018**
- 183 countries – goal is global coverage
- 1,603 surveys – DHS, MICS, WHS, LSMS, HBS, etc.
- 42 indicators – incl. more NCD and FP indicators
- Levels of and equity in MDG and SDG indicators, incl. FP

**2018**
- 18 Years of World Bank Data on Health Equity and Financial Protection
From the 2000 database to the 2018 database...
No. household surveys analyzed
Geo coverage -> From the 2000 database...
... to the 2018 database
Topic coverage -> From the 2000 database...
... to the 2018 database
Survey coverage -> From the 2000 database...
... to the 2018 database
Inequalities between and within countries
The case of full immunization

- Chad; 1996
- Cote d'Ivoire; 1994
- Ghana; 1993
- Kenya; 1993
- Mali; 1995

Poorest quintile

Richest quintile
Changes in inequalities from the 1990s to the 2010s
Selected MNCH coverage indicators

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Poorest quintile 1990s</th>
<th>Poorest quintile 2010s</th>
<th>Richest quintile 1990s</th>
<th>Richest quintile 2010s</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANC</td>
<td>31</td>
<td>45</td>
<td>69</td>
<td>77</td>
</tr>
<tr>
<td>Immunization</td>
<td>37</td>
<td>51</td>
<td>667</td>
<td>77</td>
</tr>
<tr>
<td>SBA</td>
<td>24</td>
<td>40</td>
<td>77</td>
<td>89</td>
</tr>
<tr>
<td>Treat Acute Resp. Infection</td>
<td>40</td>
<td>46</td>
<td>61</td>
<td>65</td>
</tr>
<tr>
<td>Treat Diarrhea</td>
<td>28</td>
<td>44</td>
<td>55</td>
<td>80</td>
</tr>
<tr>
<td>Met Need for Family Planning</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

25 countries with data for 1990s, 2000s and 2010s
Inequalities across countries in coverage indicators

Inpatient admission in last year as % of equivalent WHO benchmark (~9%)
Inequalities across countries in coverage indicators

Inpatient admission in last year as % of equivalent WHO benchmark (~9%)
Inequalities **within** countries in non-MDG indicators

**Inpatient admission last 12 months**

- High income countries:
  - Q1 (poorest): 12%
  - Q2: 8%
  - Q3: 6%
  - Q4: 4%
  - Q5 (richest): 2%

- Low income countries:
  - Q1 (poorest): 6%
  - Q2: 4%
  - Q3: 2%
  - Q4: 1%
  - Q5 (richest): 0%

**PAP smear last 5 yrs, women age 30-49**

- High income countries:
  - Q1 (poorest): 90%
  - Q2: 80%
  - Q3: 70%
  - Q4: 60%
  - Q5 (richest): 50%

- Low income countries:
  - Q1 (poorest): 20%
  - Q2: 10%
  - Q3: 5%
  - Q4: 1%
  - Q5 (richest): 0%
Financial protection: ‘catastrophic’ expenses

Percent incurring expenses more than 10% of consumption/income

Trends in selected countries

Inequalities across income quintiles
Median across 35 upper middle-inc. & high-inc. countries
Using the database to track progress towards UHC

- **Prevention**
  - Antenatal care
  - Immunization
  - Breast cancer screening
  - Cervical Cancer Screening
  - 12.5% weight

- **Treatment**
  - Skilled Birth Attendant
  - Treatment for ARI
  - Treatment for Diarrhea
  - Inpatient admission last 12m
  - 37.5% weight

- **Financial Protection (FP)**
  - CATA 10
  - 50% weight

Indicators are combined as a weighted geometric mean. CATA is rescaled as 100-CATA. Ideally, all indicators should be adjusted for inequality.
Service coverage (SC) vs. financial protection (FP)

Data averaged across multiple years; years vary by country
Putting SC and FP together in a UHC Index

Data averaged across multiple years; years vary by country

- **LUX 2006**
- **GBR 2005**
- **SWE 2006**
- **FIN 2007**
- **FRA 2005**
- **AUS 2006**
- **CAN 2007**
- **USA 2007**
- **ITA 2006**
- **SVN 2006**
- **SVK 2005**
- **DNK 2006**
- **BEL 2007**
- **HUN 2004**
- **IRL 2006**
- **CZE 2006**
- **ISR 2005**
- **CHE 2005**
- **KOR 2009**
- **LTU 2005**
- **POL 2007**
- **CYP 2009**
- **GRC 2007**
- **PRT 2006**
- **LVA 2006**
- **MLT 2009**
- **ESP 2006**
- **EST 2002**
- **JPN 2008**
- **URY 2003**
- **CHL 2007**
- **HRV 2005**
- **MYS 2003**
- **THA 2009**
- **MUS 2006**
- **KAZ 2006**
- **NAM 2006**
- **BIH 2005**
- **COL 2008**
- **SRB 2007**
- **CRI 2009**
- **DOM 2005**
- **BRA 2006**
- **ZAF 2003**
- **MEX 2005**
- **RUS 2005**
- **ECU 2008**
- **ARG 2007**
- **PRY 2006**
- **CHN 2003**
- **PER 2010**
- **AZE 2004**
- **MNG 2007**
- **UKR 2007**
- **LKA 2004**
- **MDA 2007**
- **COG 2006**
- **GTM 2007**
- **PHL 2007**
- **VNM 2005**
- **GHA 2007**
- **NIC 2005**
- **TJK 2006**
- **ARM 2007**
- **IND 2005**
- **KEN 2004**
- **MRT 2008**
- **MAR 1991**
- **SWZ 2006**
- **MMR 2010**
- **BGD 2007**
- **COM 2008**
- **ZWE 2007**
- **SEN 2007**
- **BFA 2006**
- **NPL 2007**
- **TCD 2003**
- **MLI 2006**
- **ETH 2008**
- **MDG 2007**
- **SWZ 2006**
- **MMR 2010**
- **BGD 2007**
- **COM 2008**
- **ZWE 2007**
- **SEN 2007**
- **BFA 2006**
- **NPL 2007**
- **TCD 2003**
- **MLI 2006**
- **ETH 2008**
Putting SC and FP together in a UHC Index

Data averaged across multiple years; years vary by country

UHC Index

- 95 – 98
- 90 – 95
- 85 – 90
- 80 – 85
- 75 – 80
- 70 – 75
- 65 – 70
- 60 – 65
- 55 – 60
- 50 – 55
- 38 – 50
- No data
Explore the data using the HEFPI Data Visualizer
Hands-on class starting right now!

- Grab a lunch box
- Head to Columbia 2
- Bring your laptop or tablet
HEFPI Data Visualizer
and HEFPI Country Dataset

Data Visualizer

Dataset (coming soon)

Check back often – updates happening regularly