How to use and adapt the Muskoka2 global estimates of aid for RMNCH for analyses of individual countries

Webinar recorded Monday 26 July, 2021

on behalf of the Countdown to 2030 Health Financing Data Analysis Centre





with Peter Binyaruka, Josephine Borghi, Ties Boerma

Aim



To show how to use the ready-made figures and analyses and conduct further analyses using the Muskoka2 Global Excel Workbook

- focusing on the needs of Countdown to 2030 country-focused teams
- This webinar is designed to follow the previous webinar from the Health Financing Data Analysis Centre please watch that one first!
- A future webinar will demonstrate how to assemble detailed country-specific analyses for those country teams wishing to understand aid for RMNCH in greater depth.

Health Financing Analysis for Annual Reviews

Josephine Borghi, Catherine Pitt, Melisa Martinez-Alvarez, Peter Binyaruka, Federica Margiani



Overview of this webinar



Muskoka2 methods and results (powerpoint slides)

- Walk through the Muskoka2 Global Workbook (in Excel)
 - General structure
 - Country-specific results
 - How country teams can use the figures, analysis, and data

Q&A

Raw data on external financing: the CRS



- The Organization for Economic Co-operation and Development maintains the Creditor Reporting System (CRS), the main source for external financing – or "aid" data
- Data are reported by:
 - 49 bilateral (i.e. country) donors
 - 42 multilateral donors (i.e. institutions such as UN agencies)
 - 36 private donors
- Relatively complete data for years 2002-19; more complete in more recent years
- 200,000 300,000 data points <u>per year</u> (!!)
- Covers <u>all</u> sectors (not just health)
- The CRS categorises aid for the health, water and sanitation, and humanitarian sectors according to sub-sectoral areas . . . but NOT in ways that permit straightforward estimates of aid for RMNCH

Muskoka2 estimates of aid for RMNCH



- Muskoka2 is an <u>algorithm</u> applied to the CRS database
- Generates estimates of the monetary value of aid for:
 - Maternal and newborn health
 - **Child health** (age 1-59 months)
 - Reproductive health (of non-pregnant women)
- Includes aid *directed towards* reproductive health and family planning, but also relevant shares of aid directed towards HIV, malaria, TB, basic health care, health systems, water and sanitation, humanitarian aid, and general budget support > recognises the value of the wider health system in promoting RMNCH
- Accessible as an Excel workbook

Estimates of aid for reproductive, maternal, newborn, and child health: findings from application of the Muskoka2 method, 2002-17





Antonia Dingle, Marco Schäferhoff, Josephine Borghi, Miriam Lewis Sabin, Leonardo Arregoces, Melisa Martinez-Alvarez, Catherine Pitt

Background Four methods have previously been used to track aid for reproductive, maternal, newborn, and child Lancet Glob Health 2020, health (RMNCH). At a meeting of donors and stakeholders in May, 2018, a single, agreed method was requested to 8:e374-86 produce accurate, predictable, transparent, and up-to-date estimates that could be used for analyses from both donor Published Online and recipient perspectives. Muskoka2 was developed to meet these needs. We describe Muskoka2 and present estimates of levels and trends in aid for RMNCH in 2002-17, with a focus on the latest estimates for 2017.

Methods Muskoka2 is an automated algorithm that generates disaggregated estimates of aid for reproductive health, maternal and newborn health, and child health at the global, donor, and recipient-country levels. We applied Muskoka2 to the Organisation for Economic Co-operation and Development's Creditor Reporting System (CRS) aid activities (A Dingle PhD, J Borghi PhD, database to generate estimates of RMNCH disbursements in 2002-17. The percentage of disbursements that benefit RMNCH was determined using CRS purpose codes for all donors except Gavi, the Vaccine Alliance; the UN Population CPitt MSc) and Medical Fund; and UNICEF; for which fixed percentages of aid were considered to benefit RMNCH. We analysed funding by Research Council Unit in The donor for the 20 largest donors, by recipient-country income group, and by recipient for the 16 countries with the Gambia (MMartinez-Alvarez) greatest RMNCH need, defined as the countries with the worst levels in 2015 on each of seven health indicators.

Findings After 3 years of stagnation, reported aid for RMNCH reached \$15.9 billion in 2017, the highest amount ever reported. Among donors reporting in both 2016 and 2017, aid increased by 10% (\$1.4 billion) to \$15.4 billion between and Partnership for Maternal, 2016 and 2017. Child health received almost half of RMNCH disbursements in 2017 (46%, \$7.4 billion), followed by reproductive health (34%, \$5 · 4 billion), and maternal and newborn health (19%, \$3 · 1 billion). The USA (\$5 · 8 billion) and the UK (\$1.6 billion) were the largest bilateral donors, disbursing 46% of all RMNCH funding in 2017 (including (M.Lewis Sabin PhD) shares of their core contributions to multilaterals). The Global Fund and Gavi were the largest multilateral donors, Correspondence to: disbursing \$1.7 billion and \$1.5 billion, respectively, for RMNCH from their core budgets. The proportion of aid for Ms Catherine Pitt, Departmen RMNCH received by low-income countries increased from 31% in 2002 to 52% in 2017. Nigeria received 7% of Global Health and (\$1-1 billion) of all aid for RMNCH in 2017, followed by Ethiopia (6%, \$876 million), Kenya (5%, \$754 million), and Hygiene & Tropical Medicine,

Interpretation Muskoka2 retains the speed, transparency, and donor buy-in of the G8's previous Muskoka approach and incorporates eight innovations to improve precision. Although aid for RMNCH increased in 2017, low-income and middle-income countries still experience substantial funding gaps and threats to future funding. Maternal and newborn health receives considerably less funding than reproductive health or child health, which is a persistent issue requiring urgent attention.

Funding Bill & Melinda Gates Foundation; Partnership for Maternal, Newborn & Child Health.

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In the push towards universal health coverage, focused targeted to need, and effective efforts are needed to ensure that reproductive, maternal,

accountable and to assess whether aid is sufficient.

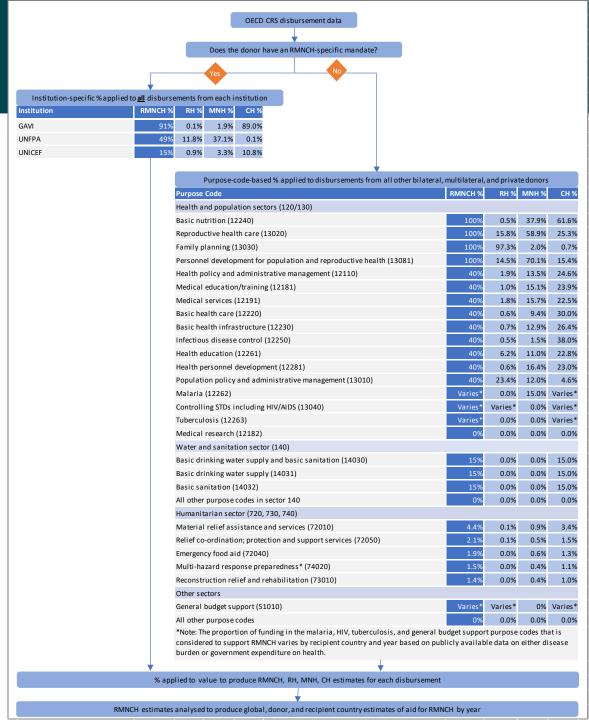
Four methods to track aid for RMNCH have previously newborn, and child health (RMNCH) receives adequate been used and compared:5 the G8 Muskoka method,6 funding. Although domestic and non-traditional health the Countdown to 2015 approach,7 the Institute for financing sources have rightly received increased Health Metrics and Evaluation (IHME) approach,* attention in recent years,12 aid remains important, and the Organisation for Economic Co-operation and particularly for low-income countries,3 and is a key pillar Development (OECD) RMNCH policy marker.9 Although in achieving the ambitious targets of the Every Woman all of these approaches are designed to measure aid for Every Child Global Strategy for Women's, Children's and RMNCH, their methods and estimates vary substantially. Adolescents' Health (2016-2030). Estimates of aid for As previously described, any aid tracking approach RMNCH can be used to hold donors and recipients comprises "trade-offs between simplicity, timeliness,

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Development, London School of

Muskoka2 Flow chart

- The automated Muskoka2 algorithm determines what % of each disbursement reported in the OECD's CRS to count towards RH, MNH, and CH (which together sum to RMNCH)
- Fixed % of all aid from 3 multilateral institutions (UNICEF, UNFPA, GAVI) is assumed to benefit RMNCH
- For other donors, 0% 100% of each disbursement is considered to support RMNCH depending upon either the purpose code or the recipient and year



Muskoka2 Global dataset: structure



- Muskoka2 "Global" dataset includes key data for all recipients (i.e. millions of records)
 for the 2002-19 period, summarized into an Excel dataset of ~230,000 records
- Indicators produced:
 - > Total aid for . . .
 - > RH
 - > MNH
 - > CH
 - > RMNCH
 - Aid per relevant population:
 - Aid for RH per woman of reproductive age
 - ➤ Aid for MNH per birth
 - > Aid for CH per child under 5

- Estimates disaggregated by:
 - Year
 - Donor
 - Recipient country or region
 - Sub-sectoral "purpose"
 - Flow type (ODA* grants, ODA* loans, private)

Muskoka2 Global dataset: Global analyses



Commentary

BMI Global Health

Falling aid for reproductive, maternal, newborn and child health in the lead-up to the COVID-19 pandemic

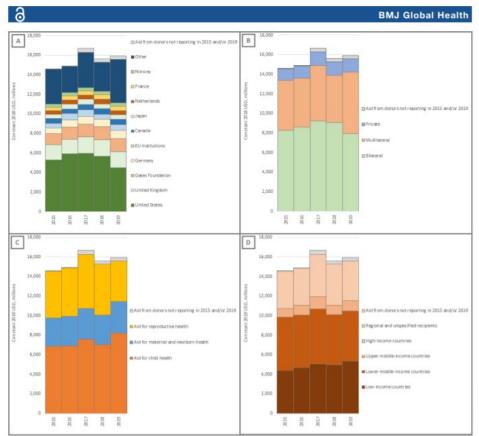
Catherine Pitt ¹ , David Bath ¹ , Peter Binyaruka ¹ , Josephine Borghi ¹ , Melisa Martinez-Alvarez ¹

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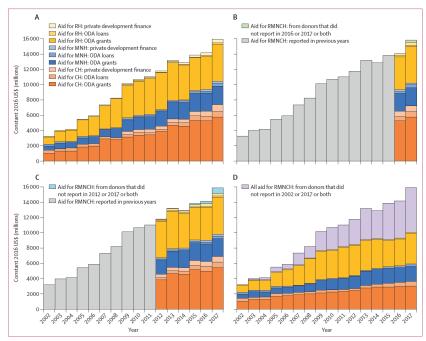
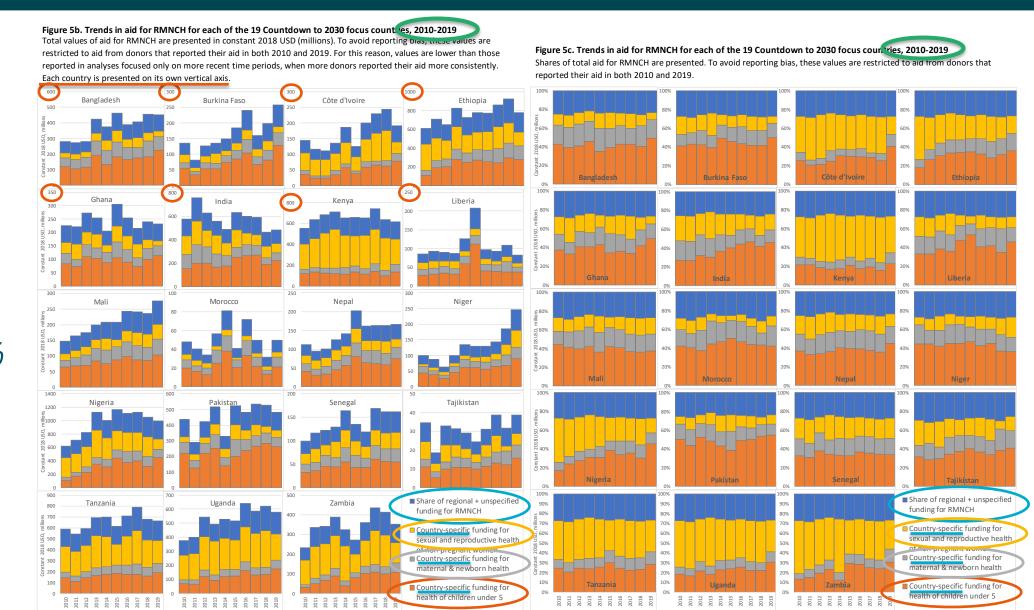


Figure 2: Trends in aid for RMNCH by beneficiary group and type of aid flow, 2002-17
Trends are presented for all reported data (A), and for data from donors reporting in 2016 and 2017 (B), 2012 and 2017 (C), and 2002 and 2017 (D). CH=child health.
MNH=maternal and newborn health. DA—Grickii development assistance. RH=reproductive health. RMNCH=reproductive, maternal, newborn, and child health.

Figure 1 Trends in aid for RMNCH, 2015-2019. Values cited in the text are restricted to donors reporting in both 2015 and 2019 to avoid reporting bias in trends over time, as come donor stid for treport in all years. Panels show the trends in aid for RMNCH: (A) disaggregated by donor, including both direct bilateral disbursements and core contributions to multilateral institutions from the top 10 largest donors over the time period and other bilateral and private donors; (B) disaggregated by type of donor deciding the purpose and recipient of the disbursement; (C) disaggregated by aid for child health, or many and newborn health and for the reproductive health of non-pregnant women; and (D) lasggregated by the World Bark country income group classification for recipient countries and regional and unspecified recipients. EU, European Union; RMNCH, reproductive, many and child health; USD, United States collars.



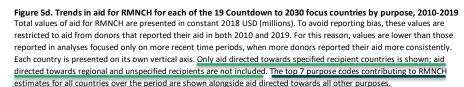
Disaggregated by RH / MNH / CH in absolute values and as %

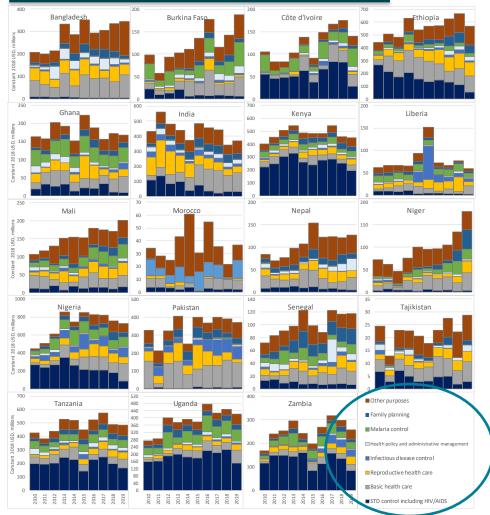






Disaggregated by purpose







Disaggregated by donor type and donor

Figure 5e. Trends in aid for RMNCH for each of the 19 Countdown to 2030 focus countries by donor type, 2010-2019

Total values of aid for RMNCH are presented in constant 2018 USD (millions). To avoid reporting bias, these values are restricted to aid from donors that reported their aid in both 2010 and 2019. For this reason, values are lower than those reported in analyses focused only on more recent time periods, when more donors reported their aid more consistently. Each country is presented on its own vertical axis. Only aid directed towards specified recipient countries is shown; aid directed towards regional and unspecified recipients are not included.

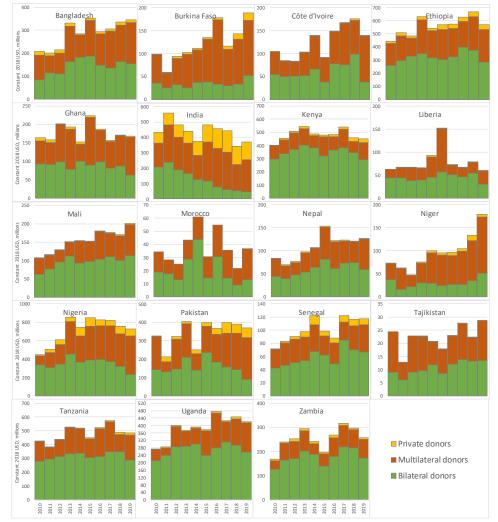


Figure 5f. Trends in aid for RMNCH for each of the 19 Countdown to 2030 focus countries by donor, 2010-2019

Total values of aid for RMNCH are presented in constant 2018 USD (millions). To avoid reporting bias, these values are restricted to aid from donors that reported their aid in both 2010 and 2019. For this reason, values are lower than those reported in analyses focused only on more recent time periods, when more donors reported their aid more consistently. Please note that each country is presented on its own vertical axis. Only aid directed towards specified recipient countries is shown without shares of aid directed towards regional and unspecified recipients. The top 7 donors for all countries over the period are shown alongside aid from other donors combined.

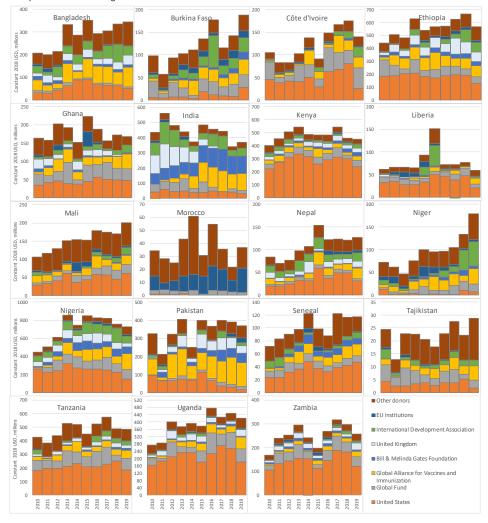
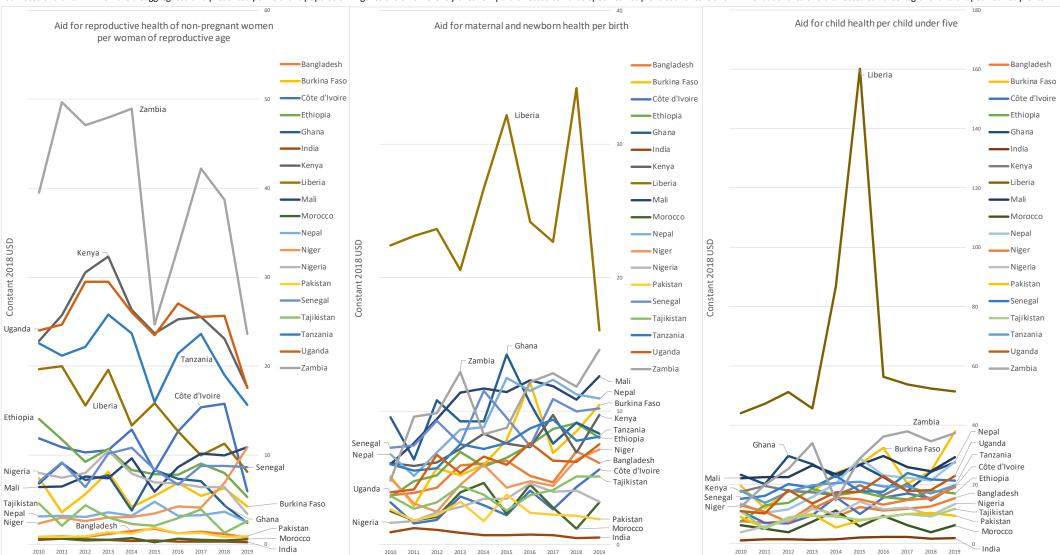




Figure 6. Aid for RMNCH per relevant population for the 19 Countdown to 2030 focus countries, 2010-2019

Estimates of aid for RMNCH are disaggregated and presented per relevant population. Figures are on different y-axes. Only aid directed towards specified recipient countries is shown without shares of aid directed towards regional and unspecified recipients.



Aid per relevant population



- Country-specific analyses have been prepared for 19 Countdown to 2030 focus countries (i.e. country collaborations and/or MNH exemplars)
 - Total aid for RMNCH in absolute values or as % disaggregated. . .
 - by RH/MNH/CH
 - by "purpose" i.e. activity area as coded by donors
 - by donor (top 7 + other donors)
 - by donor type
 - Aid for RMNCH per relevant population
 - Aid for RH per woman of reproductive age
 - Aid for MNH per birth
 - Aid for CH per child under 5
- Further analyses are possible within the Excel workbook for those comfortable with Excel graphs and pivot tables

A note on reporting bias



Problem

- Many more donors report aid disbursed in more recent years than in earlier years
- In some cases, the absence of reporting may reflect that a given donor did not disburse any aid in a given year (i.e. a true 0), but more often, the absence reflects missing data
- To avoid reporting bias, analyses of trends over time must be restricted to aid from donors that reported their aid at the beginning and end of the given time period

Recommendations

- To analyse trends over time, we recommend the period 2010-19 and restricting to donors that reported in both 2010 and 2019
- Analyses of aid in a single year (e.g. 2019) can use all reported data, as long as there is no comparison with prior years

Muskoka 2 Country dataset: Uganda



- Slight variation on the global dataset, allowing more in-depth exploration
- Includes all records from the CRS for a single recipient (e.g. Uganda): ~25,000 records for Uganda for the period 2009-18
- Contains additional variables, including:
 - Project title
 - Short description
 - Long description
 - Channel of delivery (Recipies
 - Modality (Project, basket fund

Covered in the next webinar!

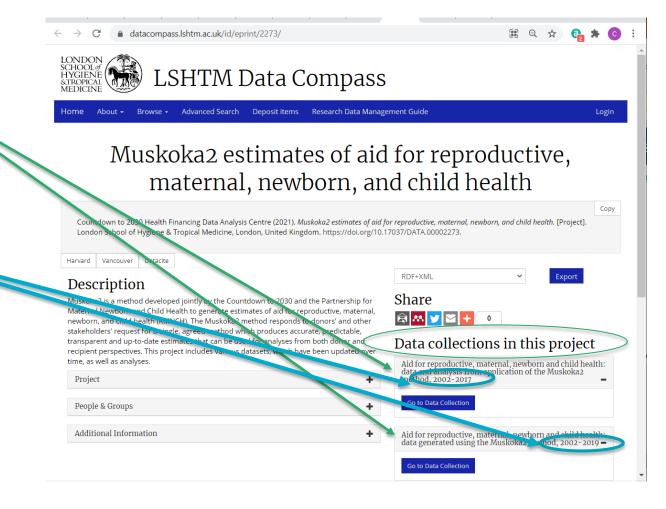
etc)

Where to find the Muskoka2 datasets



Publicly available at: https://datacompass.lshtm.ac.uk/id/eprint/2273/

- As new datasets become available, they will be added here
- Look carefully at the titles to ensure you are downloading:
 - the most recent version
 - the correct version for your interests – Global, or more detailed workbooks focused on specific countries or other themes



Please contact <u>catherine.pitt@lshtm.ac.uk</u> (en français ou en anglais) for further assistance in accessing the Muskoka2 datasets.

Muskoka2 global workbook (Excel)

