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Part 1: Introduction to the database

The IHME DAH Database enables comprehensive analysis of trends in international disbursements for health from sources of funding, channels of funding, for recipient countries/geographic regions, health focus areas and program areas. In order to understand the framework used to track DAH, we recommend that users of the IHME DAH Database 2018 review the Financing Global Health 2018 report and its online methods appendix. Both resources can be found at http://www.healthdata.org/policy-report/financing-global-health-2018-countries-and-program-transition-development-assistance-steady-path-new-global-goals.

The main variable in this dataset is development assistance for health (DAH):

**Development Assistance for Health (DAH)** is the financial and in-kind resources transferred from major health development agencies to low-income and middle-income countries with the primary intent of improving or maintaining health. In this dataset, it is tracked from source to channel to recipient country, region, health focus area and program area. DAH is funded by the channel’s corresponding income, or funds transferred from a source to the channel. Disbursements to specific health focus areas can include transfers between two channels, which can be captured in data from both channels. Duplicate transfers are removed before calculating DAH for each health focus areas, recipient region, etc. The dataset contains two elimination variables which identify double counting observations. These duplicate transfers are described on Page 3.

The data are disaggregated at the year, source, channel, double counted transfers and recipient country level, so that these variables together are the unique identifiers. Source distinguishes where funds originate from, such as private versus public funds from a particular donor country. Channels are the agencies through which funds are disbursed. Part 3 of this user’s guide provides detailed information on the definitions and admissible values of these variables. All dollar values are reported in thousands of constant 2018 US dollars. Dashes indicate nonzero values under $500 that, when rounded to the thousands place, would be rounded to zero. Negative values in the dataset result from eliminations of double counted transfers between certain channels, and redistribution of DAH between countries for countries and years that were backcasted. Data was backcasted for countries that divided into independent nations, such as Sudan and South Sudan in 2011, and Indonesia and Timor-Leste in 1999. Due to data limitations, regional- and country-level recipient data are not available till 2017.
Transfers between two channels, both of which are tracked in our database, must be removed before DAH can be summed. The code for removing these transfers can be found in Part 2 of this user's guide. These transfers include the following:

- **Funds flowing from the Bill & Melinda Gates Foundation (BMGF), US foundations, GAVI, and the Global Fund to fight AIDS, Tuberculosis, and Malaria to other channels that we track, including NGOs.** These funds are in essence reported in the initial (first receipt) channel’s data and the final (last receipt) channel’s data. We track the funds at the final channel of disbursement, so the funds reported by the initial channel of receipt are dropped.

- **Funds flowing between UN agencies.** These include transfers between the Joint United Nations Programme on HIV/AIDS (UNAIDS), the United Nations Population Fund (UNFPA), the United Nations Children’s Fund (UNICEF), the Pan American Health Organization (PAHO), and the World Health Organization (WHO). Funds reported by a UN agency channel as being sourced from another UN agency are dropped from the source agency. These funds are then captured in the outflow of the UN agency that received the funds. As Unitaid provides grantee information for the outflow of their funds, transfers to other agencies we track independently are dropped directly from the Unitaid analysis.

- **Funds transferred from bilateral agencies to NGOs tracked through the USAID VolAg report.** These transfers are reported by both bilateral agencies and NGOs. For DAH by channel estimates, the transfers reported by NGOs in the VolAg report are subtracted from each bilateral channel’s DAH, and NGOs are kept as the channel. Since funds are reported by NGOs as being from US or non-US public sources, US public funds are subtracted from the US bilateral channel’s DAH, and non-US public funds are subtracted from each non-US bilateral channel’s DAH based on each channel’s share of total DAH. For DAH by source estimates, the transfers reported by NGOs already tracked through the VolAg report are dropped and the transfers reported by bilateral agencies are kept.

- **Funds transferred from bilateral agencies to other channels that we track.** The OECD CRS dataset, through which we track funding contributed by bilateral agencies, also includes bilateral funding channeled through numerous other agencies including development banks, UN agencies, and public-private-partnerships. Since we track funding using data from those channels, we eliminate transfers from bilateral sources through these channels in order to avoid double counting. We identify double counted channel data using channel information in the CRS dataset, and drop funding disbursed through these channels.
Part 2: Using the database

The code below uses the IHME DAH Database 2018 to calculate DAH by channel, source, and recipient country. The code (1) removes transfers between channels that are captured more than once in the database, including transfers from BMGF to other channels, from one UN agency to another, and from GAVI and GFATM to other channels; (2) aggregates DAH by channel, source, or recipient country; (3) creates and exports two stacked bar graphs, DAH by channel from 1990-2018 and DAH by source from 1990-2018. The code is written in and for Stata 13.

Users can copy and paste this code into a Stata 13 editor.

```stata
// Using the IHME DAH Database (2018) to generate DAH by channel, source, and recipient country estimates.
// Copy and paste code into a .do file and run in Stata 13.
clear all
set more off

local DATA "FILL IN DATA PATH WHERE USER STORED DOWNLOADED IHME DATABASE"
local OUT "FILL IN FOLDER PATH WHERE USER WANTS GRAPHS STORED"
local deflate_yr "18"

use ""DATA\IHME DAH Database (2018).dta", clear

// Prepare data by dropping transfers between channels that are double counted
   drop if elim_ch == 1
   drop elim_ch

// Convert DAH variables to numeric values
   destring *dah*, replace force

tempfile data
```


save `data', replace

** **************************
// 1.) DAH by channel
** **************************
use `data', clear

// Step 1: Calculate total DAH by channel of assistance
collapse (sum) dah_`deflate_yr', by(year channel)
rename dah_`deflate_yr' dah_`deflate_yr'_
replace dah_`deflate_yr'_ = dah_`deflate_yr'_ / 10^6
reshape wide dah_`deflate_yr'_, i(year) j(channel) string
egen dah_`deflate_yr'_BIL_OTHER = rowtotal(dah_`deflate_yr'_BIL_* dah_`deflate_yr'_EC dah_`deflate_yr'_EEA)
egen dah_`deflate_yr'_BIL_GRAPH = rowtotal(dah_`deflate_yr'_BIL_AUS dah_`deflate_yr'_BIL_CAN dah_`deflate_yr'_BIL_CHN
dah_`deflate_yr'_BIL_FRA dah_`deflate_yr'_BIL_DEU dah_`deflate_yr'_BIL_GBR dah_`deflate_yr'_BIL_USA)
replace dah_`deflate_yr'_BIL_OTHER = dah_`deflate_yr'_BIL_OTHER - dah_`deflate_yr'_BIL_GRAPH
egen dah_`deflate_yr'_REG_DB = rowtotal(dah_`deflate_yr'_IDB dah_`deflate_yr'_AfDB dah_`deflate_yr'_AsDB)
egen dah_`deflate_yr'_other_UN = rowtotal(dah_`deflate_yr'_UNICEF dah_`deflate_yr'_UNFPA dah_`deflate_yr'_UNAIDS
dah_`deflate_yr'_PAHO dah_`deflate_yr'_UNITAID)

// Step 2: Graph total DAH by channel of assistance
gr bar (sum) dah_`deflate_yr'_BIL_USA dah_`deflate_yr'_BIL_GBR dah_`deflate_yr'_BIL_DEU dah_`deflate_yr'_BIL_FRA
dah_`deflate_yr'_BIL_CAN dah_`deflate_yr'_BIL_AUS dah_`deflate_yr'_BIL_CHN dah_`deflate_yr'_BIL_OTHER dah_`deflate_yr'_other_UN
dah_`deflate_yr'_WHO dah_`deflate_yr'_GAVI dah_`deflate_yr'_GFATM dah_`deflate_yr'_CEPI dah_`deflate_yr'_BMGF dah_`deflate_yr'_NGO
dah_`deflate_yr'_INTLNGO dah_`deflate_yr'_US_FOUND dah_`deflate_yr'_WB dah_`deflate_yr'_REG_DB, over(year, gap(0) label(labsize(*0.6)
angle(45))) ///
stack ylabel(0(2)42, labsize(*0.7) nogrid angle(0)) ytitle("Billions of" "20`deflate_yr' USD", size(*0.8) orientation(horizontal))
graphregion(fcolor(white)) legend(lab(1 "US bilateral") lab(2 "UK bilateral") lab(3 "Germany bilateral") lab(4 "France bilateral") lab(5 "Canada
bilateral") lab(6 "Australia bilateral") lab(7 "China bilateral") lab(8 "Other bilateral development agencies") lab(9 "UNICEF, UNFPA, UNAIDS, Unitaid, PAHO") lab(10 "WHO") lab(11 "Gavi") lab(12 "Global Fund") lab(13 "CEPI") lab(14 "Gates Foundation") lab(15 "US NGOs") lab(16 "International NGOs") lab(17 "US foundations") lab(18 "World Bank") lab(19 "Regional development banks") order(19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1) size(*0.525) symsize(2) /// position(11) colfirst ring(0) region(lcolor(none) fcolor(none)) title( "Development assistance for health by channel of assistance, 1990-20 `deflate_yr'", size(*0.6)) bar(1, c(red*1.2)) bar(2, c(red)) bar(3, c(red*.7)) bar(4, c(red*.5)) bar(5, c(red*.2)) bar(6, c(erose)) bar(7, c(erose*.6)) bar(8, c(erose*.3)) bar(9, c(ebblue)) bar(10, c(ebblue*.6)) bar(11, c(purple*.9)) bar(12, c(purple*.7)) bar(13, c(purple*.3)) bar(14, c(midgreen)) bar(15, c(midgreen*.65)) bar(16, c(midgreen*.4)) bar(17, c(midgreen*.2)) bar(18, c(dkorange*.5)) bar(19, c(dkorange*.3))

gr export "OUT\DAH by channel 1990-2018.pdf"

** ******************************************

// 2.) DAH by source
** ******************************************

use `data', clear

// Step 1: Calculate total DAH by source
collapse (sum) dah_`deflate_yr', by(year source)
replace dah_`deflate_yr' = dah_`deflate_yr'/ 10^6
reshape wide dah_`deflate_yr', i(year) j(source) string
egen other_public_dah_`deflate_yr' = rowtotal(dah_`deflate_yr'Austria dah_`deflate_yr'Belgium dah_`deflate_yr'Denmark dah_`deflate_yr'Finland dah_`deflate_yr'Greece dah_`deflate_yr'Ireland dah_`deflate_yr'Italy dah_`deflate_yr'Korea dah_`deflate_yr'Luxembourg dah_`deflate_yr'New_Zealand dah_`deflate_yr'Portugal dah_`deflate_yr'Sweden dah_`deflate_yr'Switzerland dah_`deflate_yr'Non_OECD_DAC_countries dah_`deflate_yr'Non_OECD_DAC_countries)

// Step 2: Graph total DAH by source
gr bar (sum) dah_`deflate_yr'United_States dah_`deflate_yr'United_Kingdom dah_`deflate_yr'Germany dah_`deflate_yr'France dah_`deflate_yr'Spain dah_`deflate_yr'Norway dah_`deflate_yr'Netherlands dah_`deflate_yr'Japan dah_`deflate_yr'Canada
dah_`deflate_yr'Australia dah_`deflate_yr'China other_public_dah_`deflate_yr'BMGF dah_`deflate_yr'Corporate_donations
dah_`deflate_yr'Private_other dah_`deflate_yr'Debt_repayments dah_`deflate_yr'Other dah_`deflate_yr'Unallocable, over(year, gap(0)
label(labsize(*0.6) angle(45))) ///
stack ylabel(0(2)42, labsize(*0.7) nogrid angle(0)) ytitle("Billions of" "20`deflate_yr' USD", size(*0.8) orientation(horizontal))
graphregion(fcolor(white)) legend(lab(1 "United States") lab(2 "United Kingdom") lab(3 "Germany") lab(4 "France") lab(5 "Spain") lab(6
"Norway") lab(7 "Netherlands") lab(8 "Japan") lab(9 "Canada") lab(10 "Australia") lab(11 "China") lab(12 "Other governments") lab(13 "BMGF")
lab(14 "Corporate donations") lab(15 "Other private philanthropy") lab(16 "Debt repayments (IBRD)") lab(17 "Other") lab(18 "Unallocable")
order(18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1) size(*0.525) symxsize(2) ///
position(11 colfirst ring(0) region(lcolor(none) fcolor(none))) title( "Development assistance for health by source of funding, 1990-
20`deflate_yr'", size(*0.6)) bar(1, c(red)) bar(1, c(red*1.2)) bar(2, c(red*0.8)) bar(3, c(red*0.6)) bar(4, c(red*0.2)) bar(5, c(gold*1.2)) bar(6,
c(gold)) bar(7, c(gold*0.6)) bar(8, c(gold*0.2)) bar(9, c(ereose*0.8)) bar(10, c(ereose*0.6)) bar(11, c(ereose*0.4)) bar(12, c(ereose*0.2)) bar(13,
c(midgreen*0.8)) bar(14, c(midgreen*0.6)) bar(15, c(midgreen*0.4)) bar(16, c(orange*0.8)) bar(17, c(gs8)) bar(18, c(gs12))
gr export "OUT\DAH by source 1990-2018.pdf"
** ***********************
// 3.) Recipient country totals
** ***********************
use `data', clear

// Calculate total DAH by recipient country

collapse (sum) dah_`deflate_yr', by(recipient_country recipient_isocode year)
sort recipient_country year
Part 3: Variable descriptions and values

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>Description</th>
<th>Admissible Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>year</td>
<td>Disbursement year</td>
<td>1990 – 2018</td>
</tr>
<tr>
<td>source</td>
<td>Denotes source</td>
<td>See Appendix B</td>
</tr>
<tr>
<td>channel</td>
<td>Channel of funding</td>
<td>See Appendix C</td>
</tr>
<tr>
<td>recipient_isocode</td>
<td>Recipient country’s ISO 3-digit code and country name (form used by IHME)</td>
<td>See Appendix A</td>
</tr>
<tr>
<td>recipient_country</td>
<td>Recipient country’s ISO 3-digit code and country name (form used by IHME)</td>
<td>See Appendix A</td>
</tr>
<tr>
<td>gbd_location_id</td>
<td>Recipient country’s Global Burden of Disease location ID</td>
<td>--</td>
</tr>
<tr>
<td>wb_regioncode</td>
<td>Recipient country’s World Bank Region Code</td>
<td>See Appendix D</td>
</tr>
<tr>
<td>wb_location_id</td>
<td>Recipient country’s World Bank Region ID</td>
<td>See Appendix D</td>
</tr>
<tr>
<td>gbd_region</td>
<td>Recipient country’s Global Burden of Disease region</td>
<td>See Appendix E</td>
</tr>
<tr>
<td>gbd_region_id</td>
<td>Recipient country’s Global Burden of Disease region ID</td>
<td>See Appendix E</td>
</tr>
<tr>
<td>gbd_superregion</td>
<td>Recipient country’s Global Burden of Disease super-region</td>
<td>See Appendix F</td>
</tr>
<tr>
<td>gbd_superregion_id</td>
<td>Recipient country’s Global Burden of Disease super-region ID</td>
<td>See Appendix F</td>
</tr>
<tr>
<td>elim_ch</td>
<td>Binary indicator to tag transfers between channels that are captured elsewhere in the database</td>
<td>1= drop to avoid double counting, 0 = Do not drop</td>
</tr>
<tr>
<td>prelim_est</td>
<td>Binary indicator to tag estimates based on preliminary data that may change in future editions (used predominantly for 2018 estimates)</td>
<td>1= Preliminary Estimate, 0= Final estimate</td>
</tr>
<tr>
<td>dah_18</td>
<td>Total funds for health disbursed from source to channel to recipient country</td>
<td></td>
</tr>
</tbody>
</table>
hiv_dah_18
hiv_care_dah_18
hiv_ct_dah_18
hiv_hss_other_dah_18
hiv_hss_hrh_dah_18
hiv_treat_dah_18
hiv_ovc_dah_18
hiv_pmtct_dah_18
hiv_prev_dah_18
hiv_amr_dah_18
hiv_other_dah_18
Funds for health disbursed from source to channel to recipient country for HIV/AIDS, disaggregated by care and support, counseling & testing, other health system strengthening, human resources, treatment, orphans & vulnerable children, prevention of mother to child transmission, prevention, drug resistance, and other.

mal_dah_18
mal_comm_con_dah_18
mal_con_nets_dah_18
mal_con_irs_dah_18
mal_con_oth_dah_18
mal_diag_dah_18
mal_hss_other_dah_18
mal_hss_hrh_dah_18
mal_treat_dah_18
mal_amr_dah_18
mal_other_dah_18
Funds for health disbursed from source to channel to recipient country for malaria, disaggregated by community outreach, bednets, indoor spraying, other control, diagnosis, other health system strengthening, human resources, treatment, drug resistance, and other.

rmh_dah_18
rmh_fp_dah_18
rmh_hss_other_dah_18
rmh_hss_hrh_dah_18
rmh_mh_dah_18
rmh_other_dah_18
Funds for health disbursed from source to channel to recipient country for reproductive and maternal health, disaggregated by family planning, other health system strengthening, human resources, other maternal health, and other.

nch_dah_18
nch_cnn_dah_18
nch_cnv_dah_18
nch_hss_hrh_dah_18
nch_hss_hrh_dah_18
nch_other_dah_18
Funds for health disbursed from source to channel to recipient country for newborn and child health, disaggregated by nutrition, vaccines, other health system strengthening, human resources, and other.

ncd_dah_18
ncd_mental_dah_18
ncd_hss_other_dah_18
ncd_hss_hrh_dah_18
ncd_tobac_dah_18
ncd_other_dah_18
Funds for health disbursed from source to channel to recipient country for non-communicable diseases, disaggregated by mental health, other health system strengthening, human resources, tobacco initiatives, and other.
oid_dah_18
oid_hss_other_dah_18
oid_hss_hrh_dah_18
oid_ebz_dah_18
oid_zika_dah_18
oid_amr_dah_18
oid_other_dah_18

Funds for health disbursed from source to channel to recipient country for other infectious diseases, disaggregated by other health system strengthening, human resources, Ebola, Zika, antimicrobial resistance, and other

Funds for health disbursed from source to channel to recipient country for tuberculosis, disaggregated by diagnosis, other health system strengthening, human resources, treatment, drug resistance, and other

Funds for health disbursed from source to channel to recipient country for health systems strengthening and sector-wide approaches, disaggregated by human resources, pandemic preparedness, and other

Funds for health distributed from source to channel to recipient country for which we have health focus area information but which is not identified as being allocated to any of the other health focus areas listed

Funds for health disbursed from source to channel to recipient country for which we have no health focus area information
Appendix A: Source

**BMGF**
- Contribution from the Bill & Melinda Gates Foundation

**Corporate Donations**
- Private sector in-kind contributions to NGOs

**Debt Repayments**
- Debt repayments (World Bank)

**Other OECD DAC Countries**
- Public sector funds from other OECD DAC countries including Czech Republic, Hungary, Iceland, Poland, Slovakia, Slovenia

**Non-OECD DAC Countries**
- Public sector funds from countries not in the OECD Development Assistance Committee (DAC) (national treasuries)

**Other**
- Interest, transfer of funds, refunds, miscellaneous income earned by channel

**Private_other**
- Private sector financial contributions (includes corporations, foundations, individuals, etc.)

**Unallocable**
- Unspecified donor sector

**Australia**
- Public sector funds (national treasuries)

**Austria**

**Belgium**

**Canada**

**China**

**Denmark**

**Finland**

**France**

**Germany**

**Greece**

**Ireland**

**Italy**

**Japan**

**Korea**

**Luxembourg**

**Netherlands**

**New Zealand**

**Norway**

**Portugal**
Spain
Sweden
Switzerland
United Kingdom
United States
Appendix B: Channels of funding

Bilateral agencies:

BIL_ARE United Arab Emirates
BIL_AUS Australia
BIL_AUT Austria
BIL_BEL Belgium
BIL_CAN Canada
BIL_CHE Switzerland
BIL_CHN China
BIL_DEU Germany
BIL_DNK Denmark
BIL_ESP Spain
BIL_FIN Finland
BIL_FRA France
BIL_GBR United Kingdom
BIL_GRC Greece
BIL_IRL Ireland
BIL_ITA Italy
BIL_JPN Japan
BIL_KOR Korea
BIL_LUX Luxembourg
BIL_NLD Netherlands
BIL_NOR Norway
BIL_NZL New Zealand
BIL_PRT Portugal
BIL_SWE Sweden
BIL_USA United States

Multilateral agencies:

EC European Commission
EEA European Economic Area

Public-private partnerships:

GAVI Gavi, the Vaccine Alliance
GFATM Global Fund to Fight AIDS, Tuberculosis, and Malaria
CEPI Coalition for Epidemic Preparedness Innovations

Development banks:

AfDB African Development Bank
AsDB Asian Development Bank
IDB
WB_IBRD
WB_IDA

NGOs and foundations:
BMGF
INTLNGO
NGO
US_FOUND

UN agencies:
PAHO
UNAIDS
UNFPA
UNICEF
UNITAID
WHO

Inter-American Development Bank
World Bank, International Bank for Reconstruction and Development
World Bank, International Development Association
Bill & Melinda Gates Foundation
International NGOs
US NGOs
US Foundations
Pan American Health Organization
Joint United Nations Programme on HIV/AIDS
United Nations Population Fund
United Nations Children’s Fund
Unitaid
World Health Organization
Appendix C: World Bank Region Codes

<table>
<thead>
<tr>
<th>Region code</th>
<th>Region name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAP</td>
<td>East Asia and Pacific</td>
</tr>
<tr>
<td>ECA</td>
<td>Europe and Central Asia</td>
</tr>
<tr>
<td>LAC</td>
<td>Latin America and Caribbean</td>
</tr>
<tr>
<td>MNA</td>
<td>North Africa and Middle East</td>
</tr>
<tr>
<td>NA</td>
<td>Unallocable/Unspecified</td>
</tr>
<tr>
<td>SAS</td>
<td>South Asia</td>
</tr>
<tr>
<td>SSA</td>
<td>Sub-Saharan Africa</td>
</tr>
<tr>
<td>WLD</td>
<td>Global</td>
</tr>
</tbody>
</table>
Appendix D: Global Burden of Disease Regions

Asia Pacific, high-income
Asia, Central
Asia, East
Asia, South
Asia, Southeast
Caribbean
Europe, Central
Europe, Eastern
Europe, Western
Global
Latin America, Andean
Latin America, Central
Latin America, Southern
Latin America, Tropical
North Africa/Middle East
Oceania
Sub-Saharan Africa, Central
Sub-Saharan Africa, Eastern
Sub-Saharan Africa, Southern
Sub-Saharan Africa, Western
Unallocated/Unspecified
Appendix E: Global Burden of Disease Super-regions
Seven regions which group sub-regions based on cause of death patterns.

Central Europe, Eastern Europe, and Central Asia High-income
GBD High-income
Latin America and Caribbean
North Africa and Middle East
South Asia
Southeast Asia, East Asia, and Oceania
Sub-Saharan Africa
Unallocated/Unspecified
Global