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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 2019 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-programs-transition>.

**Overview of variables:** The main variable in this dataset is development assistance for health (DAH). 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.

**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.

**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. (See Part 3 of this guide for detailed information on the definitions and admissible values of these variables).

**Health Focus Areas (HFAs)** include Maternal and Child health (MNCH), HIV/AIDs, Malaria, Tuberculosis, Other Infectious Diseases (OID), Non-communicable Diseases (NCD), Sector-wide Approaches/Health System Strengthening (SWAP/HSS).

**Program Areas (PAs)** are subcategories of HFAs detailed in Part 3.

All dollar values are reported in thousands of constant 2019 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 after 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 2019 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 1990-2019 and DAH by source from 1990-2019. The code is written in and for Stata 15.

Users can copy and paste this code into a Stata 15 editor.

```
// Using the IHME DAH Database (2019) to generate DAH by channel, source, and recipient
country estimates.

// Copy and paste code into a .do file and run in Stata 15.
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 "19"

use "`DATA'\IHME DAH Database (2019).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
```

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```
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)
```

```
egen dah_`deflate_yr'_WB = rowtotal(dah_`deflate_yr'_WB*)
```

```
// 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))
```

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```
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) symxsize(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*0.2)) bar(6, c(eros)) bar(7,  
c(eros*.6)) bar(8, c(eros*.3)) bar(9, c(ebblue)) bar(10, c(ebblue*0.6)) bar(11, c(purple*0.9)) bar(12, c(purple*0.7)) bar(13, c(purple*0.3))  
bar(14, c(midgreen)) bar(15, c(midgreen*0.65)) bar(16, c(midgreen*0.4)) bar(17, c(midgreen*0.2)) bar(18, c(dkorange*0.5)) bar(19,  
c(dkorange*0.3))
```

```
gr export "`OUT`\DAH by channel 1990-2019.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
```

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```
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' 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 doantions") 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(eros*0.8)) bar(10, c(eros*0.6)) bar(11, c(eros*0.4)) bar(12, c(eros*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 1990-2019.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**

<b>Variable Name</b>	<b>Description</b>	<b>Admissible Value</b>
<b>year</b>	Disbursement year	1990 – 2019
<b>source</b>	Denotes source	See Appendix A
<b>channel</b>	Channel of funding	See Appendix B
<b>recipient_isocode</b> <b>recipient_country</b>	Recipient country's ISO 3-digit code and country name (form used by IHME)	See Appendix A
<b>gbd_location_id</b>	Recipient country's Global Burden of Disease location ID	--
<b>wb_regioncode</b>	Recipient country's World Bank Region Code	See Appendix C
<b>wb_location_id</b>	Recipient country's World Bank Region ID	See Appendix C
<b>gbd_region</b>	Recipient country's Global Burden of Disease region	See Appendix D
<b>gbd_region_id</b>	Recipient country's Global Burden of Disease region ID	--
<b>gbd_superregion</b>	Recipient country's Global Burden of Disease super-region	See Appendix E
<b>gbd_superregion_id</b>	Recipient country's Global Burden of Disease super-region ID	--
<b>elim_ch</b>	Binary indicator to tag transfers between channels that are captured elsewhere in the database	1= drop to avoid double counting, 0 = Do not drop
<b>prelim_est</b>	Binary indicator to tag estimates based on preliminary data that may change in future editions (used predominantly for 2018 and 2019 estimates)	1= Preliminary Estimate, 0= Final estimate
<b>dah_19</b>	Total funds for health disbursed from source to channel to recipient country	



Variable Name	Description	Admissible Value
hiv_dah_19 hiv_care_dah_19 hiv_ct_dah_19 hiv_hss_other_dah_19 hiv_hss_hrh_dah_19 hiv_treat_dah_19 hiv_ovc_dah_19 hiv_pmtct_dah_19 hiv_prev_dah_19 hiv_amr_dah_19 hiv_other_dah_19	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_19 mal_comm_con_dah_19 mal_con_nets_dah_19 mal_con_irs_dah_19 mal_con_oth_dah_19 mal_diag_dah_19 mal_hss_other_dah_19 mal_hss_hrh_dah_19 mal_treat_dah_19 mal_amr_dah_19 mal_other_dah_19	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_19 rmh_fp_dah_19 rmh_hss_other_dah_19 rmh_hss_hrh_dah_19 rmh_mh_dah_19 rmh_other_dah_19	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_19 nch_cnn_dah_19 nch_cnv_dah_19 nch_hss_hrh_dah_19 nch_hss_hrh_dah_19 nch_other_dah_19	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_19 ncd_mental_dah_19 ncd_hss_other_dah_19 ncd_hss_hrh_dah_19 ncd_tobac_dah_19 ncd_other_dah_19	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	--

Variable Name	Description	Admissible Value
oid_dah_19 oid_hss_other_dah_19 oid_hss_hrh_dah_19 oid_ebz_dah_19 oid_zika_dah_19 oid_amr_dah_19 oid_other_dah_19	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	--
tb_dah_19 tb_diag_dah_19 tb_hss_other_dah_19 tb_hss_hrh_dah_19 tb_treat_dah_19 tb_amr_dah_19 tb_other_dah_19	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	--
swap_hss_total_dah_19 swap_hss_hrh_dah_19 swap_hss_pp_dah_19 swap_hss_other_dah_19	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	--
other_dah_19	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	--
unalloc_dah_19	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	

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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
<u>BIL_CHN</u>	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

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IDB

Inter-American Development Bank

WB\_IBRD

World Bank, International Bank for Reconstruction and Development

WB\_IDA

World Bank, International Development Association

**NGOs and foundations:**

BMGF

Bill & Melinda Gates Foundation

INTLNGO

International NGOs

NGO

US NGOs

US\_FOUND

US Foundations

**UN agencies:**

PAHO

Pan American Health Organization

UNAIDS

Joint United Nations Programme on HIV/AIDS

UNFPA

United Nations Population Fund

UNICEF

United Nations Children's Fund

UNITAID

Unitaid

WHO

World Health Organization

## Appendix C: World Bank Region Codes

<b>Region code</b>	<b>Region name</b>
EAP	East Asia and Pacific
ECA	Europe and Central Asia
LAC	Latin America and Caribbean
MNA	North Africa and Middle East
NA	Unallocable/Unspecified
SAS	South Asia
SSA	Sub-Saharan Africa
WLD	Global

## 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