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Analysis of health overseas development aid for internally displaced persons in low- and middle-income countries



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ABSTRACT

Background: There are an estimated 55 million internally displaced persons (IDPs) globally. IDPs commonly have worse health outcomes than host populations and other forcibly displaced populations such as refugees. Official development assistance (ODA) is a major source of the global financial response for health in low- and middle-income countries (LMICs), including for populations affected by armed conflict and forced displacement. Analysis of ODA supports efforts to improve donor accountability, transparency and the equitable use of ODA. The aim of this study is to examine international donor support and responsiveness to IDP health needs through analysis of ODA disbursements to LMICs between 2010 and 2019.

Methods: ODA disbursement data to LMICs from 2010 to 2019 were extracted from the Creditor Reporting System (CRS) database and analysed with Stata software using a combination of: (i) text searching for IDP and refugee related terms; and (ii) relevant health and humanitarian CRS purpose codes. Descriptive analysis was used to examine patterns of ODA disbursement, and nonlinear least squared regression analysis was used to examine responsiveness of ODA disbursement to recipient country IDP population size and health system capacity and health characteristics.

Findings: The study highlighted declining per IDP capita health ODA from USD 5.34 in 2010 to USD 3.72 in 2019 (with annual average decline of -38% from the 2010 baseline). In contrast, health ODA for refugees in LMICs increased from USD 18.55 in 2010 to USD 23.31 in 2019 (with an annual average increase of +14%). Certain health topics for IDPs received very low ODA, with only 0.44% of IDP health ODA disbursed for noncommunicable diseases (including mental health). There was also weak evidence of IDP health ODA being related to recipient country IDP population size, and health system capacity and health characteristics. The paper highlights the need for increased investment by donors in IDP health ODA and to ensure that it is responsive to their health needs.

Introduction

There are estimated to be 55 million internally displaced persons (IDPs) globally (IDMC, 2022). These include 48 million people displaced by armed conflict and violence (in 59 countries and territories) and 7 million people displaced by disasters (in 103 countries and territories).

Virtually all (99.5%) conflict/violence-driven IDPs are based in low- and middle-income countries (LMICs) (IDMC, 2021; UNHCR, 2021). Compared with resident populations and other forcibly displaced populations such as refugees, these IDPs typically experience higher rates of mortality, communicable diseases, non-communicable diseases (NCDs) and mental disorders (Greene-Cramer et al., 2020; Heudtlass et al., 2016; Lam et al., 2015; Porter and Haslam, 2005; Villamizar-Pena et al., 2021). Explanations for these worse health outcomes include ex-

Abbreviations: CRS, creditor reporting system; DAC, development assistance committee; GAVI, global alliance for vaccines and immunization; IDP, internally displaced person; LMIC, low- and middle-income country; NCD, non-communicable diseases; ODA, official development assistance; OCED, organisation of economic cooperation and development; STD, sexually transmitted disease; UN, United Nations; USD, US dollar.

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posure to higher levels of violence, poverty, worse living conditions, and reduced access to health services (World Bank, 2017; Cantor and Apollo, 2020; Cantor and Wooley, 2020; Cantor et al., 2021; Ekezie et al., 2020). One factor underpinning these differentials is that, unlike refugees, IDPs do not generally benefit from an agreed international legal status and nor do they have an international agency dedicated specifically to protecting and assisting them (Hakamies et al., 2008; Rae, 2011) (although there are now some regional treaties on IDP protection and assistance and diffuse responsibilities for different aspects of the IDP response are allocated through the humanitarian 'cluster' system (Cantor, 2018)). IDPs therefore depend principally on the government of their own country, which may have contributed to their forced displacement. In addition, IDPs are often in countries with low GDP and lower proportion of GDP spent on health. It is also argued that the international community is less interested in IDP than refugee situations, resulting in less assistance to IDPs (Cantor et al., 2021).

Official development assistance (ODA) is a major source of global financial assistance for health in LMICs, including for populations affected by armed conflict and forced displacement. ODA is defined as flows of official financing administered with the promotion of the economic development and welfare of developing countries as the main objective, (OECD, 2022) and it is inclusive of humanitarian assistance. ODA includes disbursements by all major bilateral government donors and multilateral agencies, global health initiatives (e.g. the Global Alliance for Vaccines and Immunization (GAVI)) and key philanthropic institutions (e.g. The Bill and Melinda Gates Foundation and the Wellcome Trust) (OECD, 2022). These ODA disbursements may be to recipient country governments, regional initiatives, non-governmental organisations and UN agencies. Analysis of ODA provides insight into levels of commitment by international development funders (including humanitarian funding) for specific topics (e.g., health topics) or populations (e.g., IDPs). It is also useful in understanding how equitable and responsive development and humanitarian assistance is to population needs, and for efforts to improve donor accountability and transparency (Esser and Bench, 2011; Kharas, 2011). The need to strengthen health financing for internal displacement was raised by the United Nations (UN) Secretary-General's High-Level Panel on Internal Displacement¹ and subsequent draft 'Action Agenda on Internal Displacement' by the UN Secretary-General (UN, 2021; United Nations Secretary-General's High-Level Panel on Internal Displacement, 2021). To the best of our knowledge, there has been no analysis of patterns of health-related ODA explicitly for IDPs.

The aim of this study is to examine donor support and responsiveness to IDP health needs through analysis of ODA disbursements to LMICs between 2010 and 2019. The specific objectives are to: (i) describe the patterns of disbursement of health ODA explicitly to IDPs, including comparisons with refugees; (ii) describe the key health topics receiving health ODA to IDPs; and (iii) examine responsiveness of health ODA to IDPs in relation to host country health system capacity and health characteristics. It is hoped that such information can help strengthen appropriate and equitable investment of ODA for the health of IDPs.

Materials and methods

Data source

ODA data were used from the open access Creditor Reporting System (CRS) database, available at http://stats.oecd.org/Index.aspx?datasetcode=CRS1. CRS is maintained by the Development Assistance Committee (DAC) of the Organisation of Economic Cooperation and Development (OECD). CRS data were determined to be

the most comprehensive source of information on ODA for health. CRS data have been widely used for research on tracking financial assistance across different health sectors to LMICs, including those affected by conflict, forced displacement and humanitarian crises (Patel et al., 2011; Patel et al., 2009; Pitt et al., 2010). The number of donors reporting to the CRS increasing greatly from the 15 rich-country bilateral members and five development banks of the OECD's DAC reporting in 1973 to over 50 bilateral, 35 multilateral, and private donors reporting by 2017 (Pitt et al., 2018). The reporting by OECD/DAC members is mandatory and it uses standardised methods to avoid double-counting and data are validated by a peer-review process. (OECD, 2022) Data included in alternative humanitarian aid databases such as OCHA's Financial Tracking System database are also included in CRS, but these alternative aid databases are less comprehensive than CRS and so were not included in our analysis (Grepin et al., 2012; OECD, 2022; Patel et al., 2011).

Data extraction

All ODA from 2010 to 2019 were downloaded from CRS into Stata (at the time of submission the 2021 CRS data were not available, and the 2020 CRS data were very incomplete and so were excluded). The ODA dataset consisted of 2,442,571 ODA entries. For identifying ODA entries for the populations of interest to the study, the CRS variable 'long description' was searched for any ODA entries for words related to IDPs and refugees. ODA searchers were made in English, French, Spanish and Italian. All other donors report their ODA submissions to CRS in English. The Stata search function of 'regexm' was used to search CRS entries for the following terms: IDP; internally displaced; Internally Displaced; personne déplacée; Personne Déplacée; desplazado interno; Desplazado Interno; sfollato interno; Sfollato Intern. For comparisons with refugees, we also searched entries for: refugee; Refugee; réfugié; Réfugié; refugiado; Refugiado; profugo; Profugo. We did not include the CRS 'purpose code' for 'refugees and asylum seekers in donor countries' as the focus of our study was ODA and population displacement in LMICs given that 99% of conflict/violence-driven IDPs live in LMICs (as do over 86% of refugees and asylum seekers (UNHCR, 2021)) and so including this purpose code would have inflated the ODA disbursed for refugees overall.

For identifying health-related ODA (disbursed USD in constant USD), relevant CRS 'purpose codes' for health were selected. We also added a percentage of ODA reported under relevant CRS humanitarian purpose codes to our estimates as some of the humanitarian ODA is applied to health issues. This percentage allocated for health was assumed to be 8%, based on previous studies (Patel et al., 2011; Patel et al., 2009; Patel et al., 2016). We included this proportion of humanitarian ODA as without doing so would have risked under-estimating the amount of ODA allocated for IDP health. The purpose codes used for our analysis are shown in Box 1 (and a fuller description of the purpose codes is given in Online Appendix A).

Data analysis

The analysis was conducted in Stata v.16. It combined the searches for IDPs (and separately refugees) with the health-related and humanitarian ODA purpose codes to examine the disbursement of relevant health ODA explicitly to IDPs (and to refugees). Data are presented as either total average annual ODA (USD millions) over the study period of 2010–2019 or average annual per capita ODA for IDPs over the study period. Data used to support the descriptive analysis included number of IDPs (conflict-affected IDPs and also disaster displacement IDPs) Al-Mahaidi, 2021, number of refugees (UNHCR, 2021), and total country populations (World Bank 2022e).

For the investigation into the responsiveness of IDP health ODA to recipient country needs, we hypothesised that higher disbursement of health ODA for IDPs would be associated with higher numbers of IDPs

¹ The High-Level Panel on Internal Displacement was established by the UN Secretary-General in 2019 to identify concrete recommendations on how to better prevent, respond and achieve solutions to the global internal displacement crisis.

in recipient countries. We also hypothesised that higher disbursement of health ODA for IDPs would be associated with weaker national health system capacity (e.g., financial capacity) and/or worse national health characteristics (e.g., health outcomes) in recipient countries. To test this, we conducted a regression analysis with the top 25 IDP generating countries (which account for 95% of all IDPs globally). The dependent variable was total health ODA for IDPs (USD millions). The independent variables were total IDPs per country UNHCR, 2021, national per capita GDP (World Bank, 2022d), national government domestic health expenditure (World Bank 2022e), national universal health coverage index score (Hogan et al., 2018; WHO, 2022), national-level life expectancy (World Bank 2022c), national-level maternal mortality ratio (World Bank, 2022b), and the national-level infant mortality rate (World Bank 2022a). These were all averaged over the ten year study period for each of the 25 countries (the country data can be found in Online Appendix B). These independent variables were chosen as they are commonly used indicators of health systems capacity and health needs. ore More direct indicators related to IDP health (e.g., IDP mortality rates, health expenditure on IDPs) would have been preferable but they were not available for IDP populations in all the study countries throughout the study period. The associations were examined through nonlinear least squared regression analysis as there were nonlinear relationships between IDP health ODA disbursements and the selected independent variables.

A separate sensitivity analysis was also conducted to include a proportion of all health ODA disbursed to the top 25 IDP generating countries as going towards IDPs (i.e., without being described as specifically for IDPs by the donor in CRS). The sensitivity analysis was done separately to the main analysis as the additional ODA does not reflect explicit donor funding for IDPs but may indicate the broader range of health ODA that could theoretically benefit IDPs. For this sensitivity analysis, we added two categories of funding. First, a proportion of all health ODA (i.e., that did not mention IDPs) as going to IDPs, based on the percentage of IDPs within each country population (see Online Appendix B). Second, we calculated 8% of the ODA in the CRS 'general budget support' purpose code as being used for health (as done with previous studies (Patel et al., 201120092016)), and then of this 8%, we allocated a proportion based on the percentage of IDPs within that country population (see Online Appendix B).. The amounts from the two categories were then combined and added to the IDP-explicit ODA reported in the main study.

No ethics approval was required as all data used are in the public domain.

Results

The total health ODA disbursed explicitly for all IDPs globally during 2010–2019 was USD 1213.1429 million (i.e., USD 1.2 billion). The average per capita ODA disbursed for all IDPs globally during 2010–2019 was USD 3.51 per IDP capita. This changed from USD 5.34 in 2010 to USD 3.72 in 2019, fluctuating from a low of USD 2.18 in 2016 to a high of USD 5.34 in 2010 (Fig. 1). The average annual percentage change during the study period compared with the 2010 baseline was -38%. In contrast, the average refugee health ODA disbursed for refugees during 2010 to 2019 was USD 21.20 per refugee capita. This increased from USD 18.55 in 2010 to USD 23.31 in 2019 (Fig. 1), with an average annual percentage change compared with the 2010 baseline of \pm 14%. Further details are available in Online Appendix C.

The main funders for health ODA specifically mentioning IDPs were the Global Fund (USD 382.0018 million – specifically for HIV/AIDS, malaria, and tuberculosis), Germany (USD 248.4816 million), the United States (USD 126.0215 million), Canada (USD 92.7318 million), and the European Union (USD 66.5148 million). The top ten health ODA funders for IDPs accounted for 92% of all disbursements (further details on their total ODA disbursements for IDPs are in Online Appendix D). The average amount disbursed (all funders) per ODA contribution

specifically for IDPs was USD 0.1001 million. Some key donor agencies disbursing very low health ODA for IDPs included: GAVI (no entries reported), the Bill and Melinda Gates Foundation (USD 0.6985 million), the Central Emergency Response Fund (USD 1.2719 million), and the World Bank (USD 17.4977 million). Regional funds and development banks in Latin America, the Arab region, and Africa reported no health ODA disbursements for IDPs.

The disbursement of ODA for IDP health for different health topics is shown in Table 1. Most funds (50.44%) came from the 8% allocation that we assumed may be used towards health from the CRS humanitarian purpose codes (for entries which explicitly referred to IDPs). Of the explicit health purpose code allocations, most went to 'basic health' (26.05%) - particularly to malaria control (10.45%), general basic health care (6.39%) and tuberculosis control (4.77%). The purpose code for population and reproductive health programmes received 21.8% - the vast majority for HIV/AIDS and STD control (17.09%). In contrast, only 0.44% of ODA for health of IDPs was for NCDs (including mental health). There was considerable variation between IDPs and refugees in the pattern of disbursement to the different ODA health topics. Most notably, for refugees, a much greater amount (78.49%) came from the eight percent allocation of humanitarian ODA (which explicitly referred to refugees). IDPs also received a greater proportion related to HIV, malaria, and tuberculosis control (due to the funding from the Global Fund noted above).

The amount of health ODA explicitly for IDPs that was dispersed to the top 25 IDP generating countries is given in Table 2 (with country background data provided in Online Appendix B). The countries receiving the highest average annual per IDP capita health ODA disbursements were Central African Republic (6.07 USD), Iraq (6.05 USD), Georgia (USD 5.85), Somalia (USD 4.46), and Azerbaijan (USD 3.56). Those receiving the least were Afghanistan (zero), Guatemala (USD 0.14), Turkey (USD 0.16), Côte d'Ivoire (USD 0.34), Bangladesh (USD 0.56) and Colombia (USD 0.56). The top 25 IDP generating countries accounted for over 95% of all IDPs globally but received 60% of all the health ODA disbursed to IDPs. There were a number of countries with significantly lower numbers of IDPs during the study period but which received comparatively very high amounts of health ODA for IDPs, most notably: Uganda (USD 162.5335 million disbursed during study period, = USD 378.63 per IDP capita); Eritrea (USD 54.20801 million disbursed = USD 101.89 per IDP capita); Philippines (USD 41.5966 million disbursed = USD 24.53 per IDP capita); Angola (USD 29.5861 million disbursed = USD 68.92 per IDP capita); Cambodia (USD 27.2785 million disbursed = USD 36.94 per IDP capita), and Bosnia (USD 26.6874 million disbursed = USD 25.87 per IDP capita). The remaining IDP health ODA was disbursed either to regional IDP initiatives, 'unspecified' bilateral donations, or to other countries (i.e., outside of the top 25 IDPgenerating countries).

Using regression analysis, we examined whether the health ODA disbursed for IDPs to the top 25 IDP generating countries showed any association with recipient country IDP population size and health capacity and health characteristics. The findings (Table 3) from the ordinary least squared regression analysis showed mixed findings in relation to the hypothesis. There were significant (P < 0.05) associations between higher ODA disbursements for IDP health and higher IDP population size (Coef. 0.09), higher maternal mortality ratio (Coef. 0.11), and higher infant mortality rates (Coef. 0.11). Conversely, higher national per capita GDP (Coef. 0.10), higher national government health expenditure (Coef. 0.10), and a higher universal health coverage index score (Coef. 0.12) were associated with higher IDP health ODA (i.e., against the hypothesis). However, it should be noted that all the coefficients are small and the overall strength of the models was also very weak (with adjust. R2 ranging from 0.0222 to 0.0224).

As noted above, we conducted a sensitivity analysis that included a proportion of all health ODA disbursed to the top 25 IDP generating countries as going towards IDPs (i.e., without being described as specifically for IDPs by the donor in CRS). The additional ODA included in the

Table 1
Allocation of total health ODA (USD millions) explicitly for IDPs and refugees, by activity description, 2010–2019.

	IDPs		Refugees		
	Millions (USD)	%	Millions (USD)	%	
Health ODA					
Health, General:					
Health policy and administrative management	1.5734	0.13	76.7597	1.93	
Medical education/training	0.7527	0.06	1.4870	0.04	
Medical research	0.0547	0.00	2.7145	0.07	
Medical services	12.9919	1.07	56.3923	1.40	
Basic Health:					
Basic health care	77.5367	6.39	135.4366	3.34	
Basic health infrastructure	33.8716	2.79	38.9521	0.96	
Basic nutrition	12.5424	1.03	93.2303	2.31	
Infectious disease control	4.7244	0.39	24.8169	0.63	
Health education	1.3537	0.11	5.6132	0.14	
Malaria control	126.7266	10.45	55.5041	1.40	
Tuberculosis control	57.8133	4.77	71.2592	1.80	
Health personnel development	1.4009	0.12	2.3619	0.06	
Non-communicable diseases (NCDs):					
NCDs control, general	0.0000	0.00	0.0177	0.00	
Tobacco use control	0.0000	0.00	0.0000	0.00	
Control of harmful use of alcohol and drugs	4.8543	0.40	4.8543	0.12	
Promotion of mental health and well-being	0.4582	0.04	1.3605	0.03	
Other prevention and treatment of NCDs	0.0000	0.00	0.9424	0.02	
Research for prevention and control of NCDs	0.0000	0.00	0.0000	0.00	
Population Policies/Programmes & Reproductive Health:					
Population policy and administrative management	3.4478	0.28	47.6424	1.20	
Reproductive health care	32.5882	2.69	37.6043	0.89	
Family planning	21.1678	1.74	38.5063	0.97	
STD control including HIV/AIDS	207.3249	17.09	159.5195	4.03	
Personnel development for population & reproductive health	0.0031	0.00	0.5468	0.01	
Humanitarian ODA (8% allocated to health)					
Material relief assistance and services	393.1720	32.41	2774.4330	69.92	
Relief co-ordination and support services	150.7827	12.43	256.4505	6.45	
Immediate post-emergency reconstruction & rehabilitation	68.0018	5.61	90.8920	2.29	
Total	1213.1430	100.00	3977.2975	100.00	

Note: See Online Appendix A for detailed descriptions of purpose codes.

Table 2Health ODA explicitly for IDPs and related data for the top-25 IDP generating countries, 2010–2019.

	Average number of IDPs	IDPs as % of national population	Total health ODA explicitly mentioning IDPs (USD millions)	Average annual per IDP capita health ODA explicitly mentioning IDPs (USD)
Afghanistan	1,353,200	4.01	0.0000	0.00
Azerbaijan	598,810	6.26	21.2898	3.56
Bangladesh	435,500	0.28	2.4437	0.56
Cameroon	224,500	0.97	4.4017	1.96
Centr. African Repub.	468,400	10.36	28.4097	6.07
Colombia	5,903,960	12.43	33.0489	0.56
Côte d'Ivoire	245,540	1.07	0.8302	0.34
Dem. Rep. Congo	2,880,200	3.83	37.6450	1.31
Ethiopia	744,000	0.75	19.4595	2.62
Georgia	257,700	6.90	15.0840	5.85
Guatemala	172,630	1.12	0.2494	0.14
India	743,300	0.06	12.0148	1.62
Iraq	2,536,630	7.30	153.3940	6.05
Kenya	245,240	0.52	7.6741	3.13
Myanmar	545,400	1.04	16.5109	3.03
Nigeria	1,507,500	0.84	21.8064	1.45
Pakistan	769,700	0.39	20.5336	2.67
Palestine (West Bank and Gaza Strip)	201,200	4.43	6.9042	3.43
Somalia	1,496,760	10.95	66.8008	4.46
South Sudan	1,184,800	11.30	38.4747	3.25
Sudan	2,855,900	7.41	23.7802	0.83
Syria	5,045,990	26.88	135.8468	2.69
Turkey	1,027,910	1.32	1.6260	0.16
Ukraine	630,900	1.40	24.9347	3.95
Yemen	1,417,240	5.42	39.4216	2.78

Notes: See Online Appendix B for full country demographic and economic data and data sources.

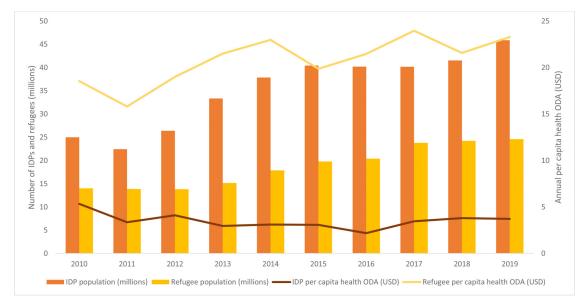


Fig. 1. Health ODA (USD per capita) explicitly for IDPs and refugees and their absolute numbers (millions), 2010-2019.

Table 3Regression analysis on association of IDP population size and measures of national health system capacity and health characteristics with outcome of health ODA explicitly for IDPs disbursed to top 25 IDP generating countries, 2010–2019.

	Coef.	Std. Err.	[95% Co	onf. Interval]	P	Adj. R2
IDP population size	0.09	0.01	[0.07;	0.10]	< 0.01	0.02
National per capita GDP	0.10	0.01	[0.08;	0.13]	< 0.01	0.02
National government health expenditure	0.10	0.01	[0.08;	0.13]	< 0.01	0.02
Universal health coverage indicator	0.12	0.03	[0.05;	0.18]	< 0.01	0.02
National life expectancy	0.06	0.05	[-0.03;	0.15]	0.19	0.02
Maternal mortality ratio	0.11	0.01	[0.09;	0.14]	< 0.01	0.02
Infant mortality ratio	0.11	0.00	[0.08;	0.14]	< 0.01	0.02

Notes: Nonlinear least squared regression analysis used due to nonlinear relationships. Dependent variable is total health ODA for IDPs (USD millions). See Online Appendix B for list of top 25 IDP generating countries and their associated data (with sources) for independent variables.

sensitivity analysis does not reflect donor funding explicitly for IDPs, but it may indicate the broader range of health ODA that could theoretically benefit IDPs. Without the additional ODA from the sensitivity analysis, the average annual health ODA per IDP capita to the top 25 IDP generating countries was USD 2.19. With the additional ODA in the sensitivity analysis, this increased to USD 7.46 per IDP capita. The detailed results are shown in Online Appendix E.

Discussion

To the best of our knowledge this is the first study examining the disbursement of health ODA for IDPs. It highlights how health ODA for IDPs has decreased between 2010 and 2019 on a per capita basis. This contrasts with refugees for whom health ODA has increased over the same period. In addition, refugees are receiving over six times more health ODA per capita than IDPs. This is despite commonly higher health needs among IDPs compared to refugees (Greene-Cramer et al., 2020; Heudtlass et al., 2016; Lam et al., 2015; Porter and Haslam, 2005; Villamizar-Pena et al., 2021).

It is unlikely that the difference in health ODA between IDPs and refugees could be attributable to refugees possibly being located in more 'costly' countries than IDPs and thus requiring more resources to sustain them at the same level, as our analysis focused only on LMICs and the regression analysis also indicated no meaningful association between ODA disbursements and national GDP. There are several other more likely explanations for the lower levels of health ODA for IDPs than refugees.

The first is that IDPs are more likely than refugees to be implicitly included in health services funded through host country domestic financing as IDPs are citizens of that country and so automatically entitled to the benefits of citizenship of that country, including access to national health services (UN, 1998). However, it should be recognised that even where such implicit inclusion exists, in some countries IDPs have documentation restrictions which limits access to health, even when they are citizens of that country.

A second possible explanation for the lower levels of health ODA for IDPs as compared to refugees is that IDPs may also benefit more from ODA not explicitly named for them in CRS. For example, by donors shifting towards more generalised allocations to countries with large IDP populations rather than IDP-specific allocations, such as through pooled funding arrangements as used in Afghanistan, South Sudan, Democratic Republic of Congo, and Somalia (Ayeni et al., 2021; Newbrander et al., 2014; The Ministry of Health and Human Service at the Federal Government of Somalia, 2020; USAID, 2022). This would accord with the initiative to increasingly try to roll the IDP response into more general national development initiatives (although the same argument could also apply to some refugee responses). However, even after adjusting for this in the sensitivity analysis (where we assumed additional ODA unspecified for IDPs may still benefit IDPs), there was still a significant difference in per capita health ODA between IDPs and refugees. In addition, evidence that IDP health outcomes are typically worse than host and refugee communities supports arguments that highlight a lack of investment in IDP health (Cantor et al., 2021; Heudtlass et al., 2016). More

Box 1 Description of CRS purpose codes used for analysis.

CRS Purpose code	Purpose code description
	Health ODA
	Health, General:
12110	Health policy and administrative management
12181	Medical education/training
12182	Medical research
12191	Medical services
	Basic Health:
12220	Basic health care
12230	Basic health infrastructure
12240	Basic nutrition
12250	Infectious disease control
12261	Health education
12262	Malaria control
12263	Tuberculosis control
12281	Health personnel development
	Non-communicable diseases (NCDs):
12310	NCDs control, general
12320	Tobacco use control
12330	Control of harmful use of alcohol and drugs
12340	Promotion of mental health and well-being
12350	Other prevention and treatment of NCDs
12382	Research for prevention and control of NCDs
	Population Policies/Programmes & Reproductive Health:
13010	Population policy and administrative management
13020	Reproductive health care
13030	Family planning
13040	STD control including HIV/AIDS
13081	Personnel development for population and reproductive health
	Humanitarian ODA (8% allocated to health):
72010	Material relief assistance and services
72050	Relief co-ordination and support services
73010	Immediate post-emergency reconstruction and rehabilitation
	Budget support (sensitivity analysis only)
51010	General budget support-related aid

Note: See Online Appendix A for detailed descriptions of purpose codes.

in-depth research is particularly required at the national level to examine the disbursement of health ODA and domestic health financing for IDPs. Additionally, it should be noted that the results in this paper only represent disbursements by donors, rather than expenditure. An analysis of national health accounts, which would help track actual ODA expenditure at the country level to get a more comprehensive picture of how ODA is spent for IDPs, along with alternative non-ODA funding sources for IDP health (and what the contextual influences are on that expenditure over time) (Price et al., 2016).

An alternative explanation for the large difference in IDP and refugee health ODA is that IDPs are under-prioritized by national and international policy-makers and donors (Al-Mahaidi, 2021; Cantor et al., 2021). This reflects the historic relative neglect of IDPs in contrast to refugees who benefit from a well-established framework of international legal protection and the existence of a specific UN agency with a mandate for refugee protection (i.e. UNHCR) (Hakamies et al., 2008; Rae, 2011). While there have been improvements over the past two decades in the international recognition of IDPs, particularly through the formulation of the UN Guiding Principles on Internal Displacement and through regional mechanisms (Cantor and Apollo, 2020; UNHCR, 2020), and in efforts to better coordinate the IDP response through the humanitarian cluster system and New Way of Working (UN, 2022), our findings suggest there remain major gaps in proportional international financing to support the health of IDPs. Policy analysis is required at global, regional and national levels to help explain decision-making in relation to the patterns of health resource allocation for IDPs. It should be noted that overall ODA (i.e. ODA for all sectors and populations) has been trending downwards during the study period, (IDA, 2020) but this does not explain the increase in ODA for refugees. It could be speculated that the increase in refugee health ODA during the study period may have come at the expense of IDP health ODA which declined during the same period (Beytrison, 2018). For example, the large increase in ODA in response to the Syria refugee crisis may have reduced ODA for IDPs in Syria (and potentially elsewhere).

The study also reported on the disbursement of funding to different health topics. Three key findings emerged from this. Firstly, the proportionately large amount of ODA for HIV/AIDS and malaria (and to a lesser extent tuberculosis), which came almost entirely from the Global Fund. The increased funding and engagement by the Global Fund with IDPs is to be welcomed (Spiegel et al., 2010; The Global Fund, 2022). The second key finding was the extremely low amount of ODA disbursed for NCDs (including mental health) to IDPs (and also refugees). This is despite the high burden of mental disorders among conflictaffected populations (and particularly among IDPs) (Charlson et al., 2019; Porter and Haslam, 2005), and the increasing burden of NCDs such as diabetes and cardiovascular disease among conflict-affected populations (Kehlenbrink et al., 2019; Naja et al., 2019). It should be noted that ODA for NCDs and mental health may be covered through other CRS purpose codes (e.g. 'basic health care'), but it nevertheless appears a major funding shortfall. The very limited ODA for NCDs among IDPs highlights belated donor recognition of the burden of NCDs among conflict-affected and forcibly displaced populations which may be partly attributable to insufficient epidemiological data, limited evidence on costs and models of NCD care, and concerns about costs and complexity of NCD care for forcibly displaced persons (Jaung et al., 2021; Jobanputra et al., 2016; Spiegel et al., 2014). The implications are that the treatment gap for mental health and psychosocial support will remain extremely large among IDPs (and refugees) (Roberts et al., 2019); and that IDPs (and refugees) will not be able to receive essential life-saving medicines and treatment for NCDs (Jobanputra et al., 2016; Kehlenbrink et al., 2019). The third main finding was that half of the ODA we recorded for IDPs came from the proportion (8%) from the CRS humanitarian purpose codes that we assumed a priori may be for health (i.e. it was not explicitly for health). This creates some uncertainty about the true amount disbursed for IDP health and detailed in-country examination is important to understand the degree to which ODA is being used to support IDP health. It also suggests more specific humanitarianrelated CRS purpose codes would be valuable in strengthening understanding and transparency in ODA reporting for humanitarian activities.

Country IDP population sizes seemed to have limited bearing on the amounts of ODA disbursed. For example, was no health ODA being disbursed to Afghanistan despite it having an average of 1,353,200 IDPs during the study period. There has certainly been significant donor investment for health in Afghanistan (Bertone et al., 2019), and the lack of health ODA specifically for IDPs may be due to donors preferring to use pooled funding approaches in Afghanistan, including multi-donor trust funds, which are intended for the whole population rather than specific groups such as IDPs (Frost et al., 2016; Newbrander et al., 2014). Nevertheless this raises concern about how well the specific health needs of IDPs are identified and addressed in Afghanistan (Médecins sans Frontières, 2014) .Other countries to which very limited health ODA was disbursed for IDPs included Turkey and Colombia but this may be due to their greater levels of national wealth and capacity to provide health care to IDPs. However, studies indicate commonly worse health outcomes in Colombia among IDPs than resident populations (Castañeda-Hernández et al., 2018; Lagos-Gallego et al., 2017; Rodriguez-Morales et al., 2018), while evidence on the health of IDPs in Turkey appears very limited. Conversely, health ODA disbursed for IDPs was comparatively very high in several countries with relatively low numbers of IDPs during the study period (e.g., Uganda, Eritrea, Philippines, Angola, Cambodia, and Bosnia). This is potentially attributable to these ODA disbursements being used to support the health of former IDPs (given some of these countries had historically high numbers of IDPs). However, this does not necessarily explain disbursements to countries such as the Philippines and Eritrea which did not have historically high numbers of IDPs. The lack of responsiveness of ODA to IDP needs was suggested in the regression analysis, which

indicated mixed and statistically weak associations between disbursements of health ODA for IDPs and numbers of IDPs and health system and health characteristics.

There is a need for more equitable health ODA for IDPs. Rather than re-distributing funds from refugees towards IDPs, there is a need to increase overall funding to help meet the substantial health needs of IDPs. The UN's 2021 High-level Panel on Internal Displacement report noted the need to harness international financing, including establishing a Global Fund for Solutions to Internal Displacement (United Nations Secretary-General's High-Level Panel on Internal Displacement, 2021). In addition to rights-based justifications, there are also economic arguments for greater attention paid to IDPs given that the global economic cost of internal displacement is estimated to amount to USD 20.5 billion (and this is still considered a significant underestimate), investment in IDPs, including their health, is likely to be economically advantageous (Heggenes and Bilak, 2021; United Nations Secretary-General's High-Level Panel on Internal Displacement, 2021). It is important that international donor agencies such as the World Bank (and regional development banks and funds) review their approach to IDPs as these entities have not contributed significantly to health ODA for IDPs. Notably, the World Bank has engaged more recently on the issue of internal displacement and greater investment in the health of IDPs would be timely (World Bank, 2021). Development actors have expressed interest in incorporating internal displacement into existing financing to ensure that IDPs benefit from general development assistance, rather than launching specific interventions for IDPs, but the UN High-level Panel on Internal Displacement has argued for specific, complementary measures for IDPs to avoid IDPs becoming "mainstreamed into oblivion" (United Nations Secretary-General's High-Level Panel on Internal Displacement, 2021).

ODA also needs to be more responsive to country IDP health needs, for which we require a better understanding of the severity and diversity of those health needs. Such responsiveness is one of the steps needed to address key international donor commitments such as the Paris Declaration on Aid Effectiveness and the High-Level Forums on Aid Effectiveness. ODA investment in IDP health should also be predictable and avoid aid fragmentation and the associated added burden to recipient national governments and humanitarian agencies. This includes addressing the dominance of smaller and short-term humanitarian ODA (particularly given the mean amount disbursed per ODA contribution specifically for health and IDPs was only USD 0.1001 million). This dominance of smaller ODA disbursements risks impeding national governments and other key actors in developing the long-term strategies and programmes required to respond to the needs of IDPs in a sustainable manner (Cantor et al., 2021; Heudtlass et al., 2016).

Finally, it is important to recognise that ODA is not a panacea – it is only one source of country-level funds and one that should complement, rather than substitute, host country investment for IDP health. It is critical that national governments dedicate resources to supporting solutions to internal displacement and avoid aid dependency (Farag et al., 2009; Kenny, 2006; United Nations Secretary-General's High-Level Panel on Internal Displacement, 2021). Innovative financing mechanisms for IDPs could also support such initiatives (UNHCR, 2020). This should be accompanied by strategies to support national IDP health policies to help ensure the strategic and effective use of IDP health financing (Al-Mahaidi, 2021). Such efforts to support adequate financing for IDP health are essential if global and national commitments to achieving universal health coverage are to be reached.

Strengths and limitations

The main strengths of this study are that, to the best of our knowledge, it provides the first in-depth, systematic analysis of ODA disbursements for the health of IDPs. Indeed, we are not aware of any equivalent analysis for IDPs for other sectors. It provides important empirical evidence of inequity in aid funding for IDPs generally, and specifically for certain health topics such as NCDs and mental health. It also suggests a

lack of responsiveness in health ODA for IDPs in relation to country IDP population sizes and health system capacity and health characteristics. The findings can support advocacy and policy initiatives to strengthen more equitable and appropriate responses for IDP health.

The main limitation of this study is that the text searching of the CRS dataset may have excluded ODA entries which could have been for IDPs but did not explicitly use our search terms or refer to IDPs. This limitation risks under-estimating the true amount of health ODA for IDPs (although the same limitation could apply to refugees too). Conversely, using text searching of the CRS dataset risks capturing text entries coincidentally using the same terms but not actually related to IDPs. This would result in an over-reporting of health ODA for IDPs. We could not manually search all the relevant entries as they numbered in the thousands. However, we consider the likelihood of accidentally capturing such entries as very low. Another limitation was that we included an assumed proportion (8%) of the ODA reported in the relevant CRS humanitarian purpose codes (and which explicitly referred to IDPs) that could potentially have been used for health activities. Over half of the IDP ODA we recorded came from this source (i.e., rather than being explicitly for health) and this creates a degree of uncertainty about the true amount ultimately disbursed for health for IDPs. Another limitation was that we did not analyse national health accounts for disbursements of domestic revenues by national governments to IDPs in their countries. These domestic revenues likely represent a significant source of health financing that could benefit IDPs, as do other forms of support such as through donations from private philanthropic donors that do not report to CRS, donations from the public, the diaspora, and other actors such as religious groups. Another limitation was that we could not examine the in-country expenditure of ODA and the degree to which it benefits IDP populations, and in-depth country research is recommended for this (Price et al., 2016). Finally, when examining the relationship between disbursements of health ODA for IDPs and health needs, we could only use proxy measures rather than more direct measures such as mortality as such data were not sufficiently available. It is strongly recommended that more epidemiological data are collected with IDPs to support more appropriate, equitable and responsive funding for IDP health.

Conclusions

The study highlights declining per capita amounts of health ODA for IDPs between 2010 and 2019. It also reveals substantially lower amounts of health ODA for IDPs as compared to refugees, despite typically worse health outcomes among IDPs. There were also major IDP ODA shortfalls for certain health topics, particularly NCDs and mental health. Disbursement of health ODA was also poorly correlated with IDP population size in that country and other proxy measures of need. The paper highlights the need for increased investment by donors in health ODA for IDPs, and the need to ensure that it is both responsive to health needs and supports national governments and other key stakeholders in developing long-term support to sustain improvements in the health and wellbeing of IDPs.

Declaration of Competing Interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

CRediT authorship contribution statement

Bayard Roberts: Visualization, Formal analysis, Writing – original draft. Winifred Ekezie: Writing – original draft. Kiran Jobanputra: Writing – original draft. James Smith: Writing – original draft. Sara Ellithy: Writing – original draft. David Cantor: Writing – original draft. Neha Singh: Writing – original draft. Preeti Patel: Visualization, Writing – original draft.

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Supplementary materials

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