

Online Supplementary Document

Turner et al. Developmental assistance for child and adolescent mental health in low- and middle-income countries (2007-2014): Annual trends and allocation by sector, project type, donors and recipients

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Table S1. Keywords used to search for mental health projects in the Creditor Reporting System, 2007-2014

English	Italian	French	Portuguese	Spanish	German	Dutch
Abuse (drug/ substance)	Abuso (di droghe/ sostanze)	Abus (de substance/ de drogue)	abuso (de drogas/ substâncias)	abuso (de drogas/ substancias)	Drogenmissbrauch	misbruik drugsmisbruik middelenmisbruik
Alcohol	Alcol/alcool	Alcool	álcool	alcohol	alkohol	alcohol
Cognit- (as in, cognitive, cognition)	Cognizione	Cognit- cognitif cognitive	cognit- Cognitivo	cognitiv- cognición	kognitiv	cognitieve kennis
Counsel- (as in counsellors, counselling)	Consulen- (Consulente/ consulenza)	thérapeute	terapeuta	terapeuta	Therapeut Therapeutin	raadgever begeleiding
Distress	Angoscia	Détresse Angoisse	aflição	Angustia afficción	Not / Leid / Leiden / Bedrängnis	nood/angst

Mental health	salute mentale	Santé mentale	saúde mental	salud mental	psychische / mentale / seelische Gesundheit	geestelijke gezondheid (mental health)
Mental illness	disordine mentale	Maladie mentale	doença mental (doenças mentais)	enfermedad mental		
mental disorder	disordini mentali	(MALADES MENTAUX)			Psychische Erkrankung	psychische stoornis/aandoening (mental disorder[s])
mental disability	malattia/e mentale/i	Désordre mental	distúrbio mental	trastorno mental		
mental distress	disturbi mentali	Maladies mentales	mentalmente	discapacidad mental	Psychische / mentale Störung	Geestelijke stoornis
	disturbo mentale	Trouble mentale		incapacidad mental	Psychische Gesundheit	Geestesziekte
	ritardo mentale	Troubles mentaux		enfermedades mentales	Geisteskrankheit	verstandelijke handicap
	disabilità mentale	Déficiéce mentale	doentes mentais		Geistiger Zurückgebliebenheit	Geestelijke handicap
	handicap mentale	Handicap mental	doente mental	deficiencia mental	Geistiger Behinderung	Intellectuele handicap
	mentalmente	Incapacité mentale	mentalemente doente	trastornos mentales	Geistesstörung	mentale handicap
		Handicaps mentaux	problemas mentais		Psychischen Störungen	geestelijk gehandicapt
		Déficiéces mentales	perturbações mentais		Geisteskrankheiten	geestesziekte
		Mentalement	deficiência mental			
			incapacidade mental			

					Geistig psychisch	geestelijk
Psych-	Psic-	Psych-	psic-	psico psíquica	Psych-	Psych-
Therap- (therapy, therapeutic)	Terap-	Thérap-	Terap-	Terapia <u>terapéutica</u>	Therapie therapeutisch	therapie therapeutische
Trauma (trauma, traumatised, traumatized) PTSD	Trauma DPTS Disturbo post traumático da stress	Trauma- SPTD	trauma - traumatismo, traumatizado	trastorno de estrés postraumático (TEPT)	Trama / Seelischer Schock (traumatisiert) Posttraumatische Belastungsstörung	trauma PTSS (PTSD)
Well being, well-being, wellbeing	Benessere	Bien-être	bem-estar	bienestar	Wohlbefinden	welzijn (well-being)
Addiction	dipendenza	addiction	Vício Dependência habituação	Adicción	Sucht / Abhängigkeit	verslaving (addiction)
Antidep-	Antidep	antidépres	anti-dep	antidepressivo	antidep	antidepress- (antidepressant[s])
Anxiety	Ansia	anxiété	ansiedade	Ansiedad	Angst / Angstgefühl	angst

						ongerustheid bezorgdheid
Autism	Autismo	autisme	autismo	autismo	Autismus	autisme
Bipolar	Bipolare (disturbo)	bipolaire	bipolar	bipolar	bipolar	bipolaire
Depress-	Depress-	dépress-	depressão	depresión	depress-	depressie
Dyslexia	Dislessia	dyslémie	dislexia	dislexia	Legasthenie	dyslexie
Mood	Umore	Humeur	humor	humor	Laune / Stimmung	stemming
Schizo-	Schizo-	schizo-	esquizo-	esquizofrenia	Schizo	schizo-
Self harm Suicide	Suicidio Autolesionismo	mutilation suicide	auto-mutiação, suicidio	Suicidio autolesiones	Selbstbeschädigung / Selbstverletzung Suizid / Freitod / Selbstmord	zelf pijniging zelfmoord
ADHD	ADHD	TDAH	ADHD	TDAH	ADHD	ADHD
Neuro-	neuro	neuro	neuro	neuro	neuro	Neuro-

Table S2. Definitions of sector and project type codes

	Code	Definition
Sector	Education	All school-based programmes
	Health	Projects addressing health or social welfare
	Humanitarian	Including conflict, emergency and natural disaster
	Rights	Projects addressing human and legal rights, including the right to education and healthcare

	Substance use	Including alcohol- and drug-related disorders
	HIV/AIDS	Projects addressing children and adolescents with HIV/AIDS, or orphaned due to the disease
	Neuro	Neurological disorders, including epilepsy
	Autism	All projects pertaining to autism, coded as a sector due to the high investment it received as a single disorder
Project type	Research	Projects entailing all forms of research into children and adolescent mental health (including prevalence, causes, treatment efficacy etc.)
	Capacity building	Projects aiming to increase and/or improve health systems and services, training, or partnership formation between organisations or sectors
	Prevention	Projects aiming to prevent and/or protect against the development of mental disorders, noted to frequently target vulnerable populations, e.g. street children
	Promotion	Including advocacy, policy, awareness-raising and wellbeing promotion
	Psychosocial support	Including support, care, counselling, interventions, rehabilitation, treatment and social inclusion

Table S3. Breakdown annual DAMH-CA for HIV/AIDS, rights, neuro, and education (USD millions)

	2007	2008	2009	2010	2011	2012	2013	2014	Grand Total (USD millions)
HIV/AIDS	\$0.59	\$0.14	\$0.13	\$0.37	N/I	\$0.02	N/I	N/I	\$1.26
Rights	N/I	\$0.05	\$0.27	N/I	\$0.21	\$0.02	N/I	\$0.13	\$0.69
Neuro	N/I	N/I	N/I	\$0.03	\$0.07	\$0.08	\$0.14	\$0.21	\$0.53
Education	\$0.12	\$0.16	\$0.21	\$0.41	\$0.43	\$0.73	\$0.77	\$0.56	\$3.39

Text S1. Coding process

Codes for sectors were based on the CRS categorisation (health, education, humanitarian) and inductive categorisation from the project descriptions/keywords (rights, HIV/AIDS, neuro, autism). Project types were inductively coded based on the project descriptions.

For cases where projects belonged to more than one sector, e.g. 'humanitarian' and 'education', a form of hierarchy was decided on. All projects carried out in humanitarian settings were coded 'humanitarian' (even if they were school-based, for example), while all other school-based projects were 'education'. The 'Sector name' project information was also used to inform categorisation.

Text S2. Calculating DAMH-CA by region and per child/adolescent

Population figures were taken from a United Nations Population Division (dataset 'Population by broad age groups- both sexes') [33], where data on region, age group, and gender was available. The population data was for 2005-2015, and not available by year. The following steps were taken to calculate annual DAMH-CA per child/adolescent by region:

- Step 1 Population figures for each region for the child/adolescent age group (0-19 yrs) were recorded, and then high income country populations for the same age group were subtracted for each region.

$$\text{Population}_{\text{Region/Age/Year}} - \text{Population}_{\text{HICs/Age/Year}}$$

- Step 2a To calculate the annual rate of child/adolescent population change (i.e. increase or decrease) by region, the 2005 population figure was subtracted from the 2015 population figure. Then this figure was divided by 10 (i.e. 2015-2005; the number of years) to estimate the average annual rate of population change, for each region.

$$(\text{Population}_{\text{Region/Age/2015}} - \text{Population}_{\text{Region/Age/2005}}) / 10$$

- Step 2b To calculate the child/adolescent annual population for each region, first the average annual rate of population change for each region was multiplied by the number of years between the year of calculation and 2005, denoted X (for example 2009, would be calculated at 2009-2005=4, hence X=4). Then this calculated figure was added to the population figure of 2005 (per region, by age).

$$\text{Population}_{\text{Region/Age/2005}} + \{[(\text{Population}_{\text{Region/Age/2015}} - \text{Population}_{\text{Region/Age/2005}}) / 10] * X\}$$

- Step 3 DAMH-CA was divided by the population estimates for each region by year, to give annual DAMH-CA per child/adolescent

$$\text{DAMH-CA}_{\text{Region}} / \text{Population}_{\text{Region/Age/Year}}$$