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Poverty and suicide research in low- and middle-income countries: systematic mapping of literature published in English and a proposed research agenda (Supplement)

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Appendix 1

Characteristics of included studies, by WHO region (N=84)

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
AFRO						
Adinkrah et al., 2011	Ghana Rural	Children, adolescents, adults and older adults (n/a age) 5% female	Case report/case series (n=287)	Unemployment	Fatal suicide	Descriptive
Botha et al., 2012	South Africa	Adolescents, adults and older adults (15-96 years old)	Economic modelling (n=1659)	National income	Fatal suicide	Bivariate
	Community based (rural and urban)	n/a gender		National income	Fatal suicide	Multivariate
du Toit et al., 2008	South Africa Hospital based	Children, adolescents, adults and older adults (7-87 years old) 69% female	Retrospective cohort study (n=259)	Economic/ financial problems	Non-fatal suicide	Descriptive
Jena et al., 2009	South Africa	Adolescents and adults (13+ years old)	Case report/case	Unemployment	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (urban)	3% female	series (n=46)			
Kinyanda et al., 2004	Uganda	Adolescents, adults and older adults (13+ years old)	Case-control study (n=400)	Economic/ financial problems	Non-fatal suicide	Descriptive
	Hospital based (urban)	37% female		Unemployment	Non-fatal suicide	Descriptive
Kinyanda et al., 2011	Uganda	Children, adolescents and adults (0-19 years old)	Cross-sectional study (n=1492)	Economic status and wealth assets	Non-fatal suicide	Bivariate
	Community based (rural)	53% female				
Moosa et al., 2005	South Africa	Adolescents, adults and older adults (13+ years old)	Cross-sectional study (n=43)	Economic/ financial problems	Non-fatal suicide	Descriptive
	Hospital based (urban)	60% female				

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Naidoo et al., 2013	South Africa Hospital based	Adolescents and adults (13-64 years old) 75% female	Cross-sectional study (n=688)	Unemployment	Non-fatal suicide	Descriptive
Ovuga et al., 2005	Uganda Community based (rural)	Adults and older adults (19+ years old) 33% female	Cross-sectional study (n=939)	Unemployment	Non-fatal suicide	Bivariate
AMRO						
Bando et al., 2012	Brazil Community based (rural and urban)	Adolescents, adults and older adults (15+ years old) 20% female	Interrupted-time series (n=98904)	National income	Fatal suicide	Bivariate
Faria et al., 2006	Brazil Community based (peri-urban)	Adolescents, adults and older adults (13+ years old) 20% female	Ecological study (n=4766)	Composite poverty measure	Fatal suicide	Multivariate
				National income	Fatal suicide	Multivariate
EMRO						

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Ahmadi et al., 2008	Iran Community based (rural and urban)	Children, adolescents, adults and older adults (n/a age) 71% female	Controlled ecological study (n=4267)	Unemployment	Fatal suicide	Descriptive
Ahmadi et al., 2009	Iran Hospital based (rural and urban)	n/a age 87% female	Case-control study (n=60)	Unemployment	Non-fatal suicide	Multivariate
Alimohammadi et al., 2013	Iran Hospital based	Adolescents, adults and older adults (13-74 years old) 20% female	Cross-sectional study (n=79)	Unemployment	Fatal suicide	Descriptive
Aliverdina et al., 2009	Iran Community based (urban)	n/a age 100% female	Ecological study (n=100)	Support from the welfare system	Fatal suicide	Multivariate
				Unemployment	Fatal suicide	Multivariate
Ekramzadeh et al., 2012	Iran Hospital based	Adults and older adults (19+ years old), medically ill 39% female	Cross-sectional study (n=650)	Unemployment	Non-fatal suicide	Bivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
				Unemployment	Non-fatal suicide	Multivariate
				Unemployment	Non-fatal suicide	Bivariate
				Unemployment	Non-fatal suicide	Multivariate
Eskandarieh et al., 2012	Iran	Children, adolescents, adults and older adults (n/a age)	Cross-sectional study (n=892)	Unemployment	Fatal suicide	Descriptive
	Community based (rural and urban)	64% female		Unemployment	Non-fatal suicide	Descriptive
Ghaleiha et al., 2012	Iran	Children, adolescents, adults and older adults (n/a age)	Cross-sectional study (n=1566)	Unemployment	Non-fatal suicide	Descriptive
	Hospital based (rural and urban)	53% female				

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Hemmat et al., 2004	Iran Hospital based	Adolescents, adults and older adults (13+ years old) 99% female	Cohort study (n=412)	Economic/ financial problems	Non-fatal suicide	Descriptive
Keyvanara et al., 2013	Iran Hospital based	Adolescents, adults and older adults (13+ years old) 74% female	Cross-sectional study (n=179)	Economic status and wealth assets	Non-fatal suicide	Descriptive
Keyvanara et al., 2013	Iran Hospital based	Adolescents, adults and older adults (13+ years old) 74% female	Cross-sectional study (n=179)	Unemployment	Non-fatal suicide	Descriptive
Khan et al., 2008	Pakistan Community based	n/a age 17% female	Case-control study (n=200)	Economic/ financial problems	Fatal suicide	Bivariate
				Unemployment	Fatal suicide	Bivariate
Lari et al., 2007	Iran	Adolescents and adults (13-64 years old)	Cross-sectional study (n=89)	Economic/ financial problems	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Hospital based (urban)	79% female				
				Unemployment	Fatal suicide	Descriptive
				Economic/ financial problems	Non-fatal suicide	Descriptive
				Unemployment	Non-fatal suicide	Descriptive
Lari et al., 2009	Iran	Children, adolescents, adults and older adults (n/a age)	Cohort study (n=125)	Economic/ financial problems	Fatal suicide	Descriptive
	Hospital based (urban)	72% female		Economic/ financial problems	Non-fatal suicide	Descriptive
Nojomi et al.,	Iran	n/a age	Cross-sectional study	Unemployment	Non-fatal	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
2006	Hospital based (urban)	63% female	(n=632)		suicide	
Nojomi et al., 2007	Iran Community based (urban)	Children, adolescents, adults and older adults (n/a age) 65% female	Cross-sectional study (n=2300)	Unemployment	Non-fatal suicide	Bivariate
				Unemployment	Non-fatal suicide	Multivariate
Nojomi et al., 2008	Iran Hospital based (urban)	Children, adolescents, adults and older adults (n/a age) 63% female	Cross sectional study (n=632)	Unemployment	Non-fatal suicide	Descriptive
Qaisar et al., 2014	Pakistan Hospital based (urban)	Adolescents, adults and older adults (13+ years old) 60% female	Cross-sectional study (n=100)	Economic status and wealth assets	Non-fatal suicide	Descriptive
				Unemployment	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Ramim et al., 2013	Iran Hospital based	Adolescents and adults (13-64 years old), married 100% female	Cohort study (n=35)	Unemployment	Non-fatal suicide	Descriptive
Sabzghabae et al., 2013	Iran Hospital based (rural and urban)	Adolescents and adults (13-64 years old) 60% female	Cohort study (n=400)	Unemployment	Non-fatal suicide	Descriptive
Sadr et al., 2013	Iran Hospital based (urban)	Adolescents and adults (13-64 years old), multiple suicide attempters 57% female	Cross-sectional study (n=400)	Unemployment	Non-fatal suicide	Descriptive
Tahir et al., 2010	Pakistan Hospital based	n/a age 62% female	Case report/case series (n=154)	Unemployment	Non-fatal suicide	Descriptive
Tahir et al., 2013	Pakistan Community based (rural and urban)	Children, adolescents and adults (0-64 years old) 22% female	Cohort study (n=108)	Unemployment	Fatal suicide	Descriptive
				Unemployment	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
EUR						
Grigoriev et al., 2013	Belarus Community based (rural and urban)	Adolescents and adults (13-64 years old) n/a gender	Ecological study (n=n/a)	Relative poverty	Fatal suicide	Multivariate
				Unemployment	Fatal suicide	Multivariate
Almasi et al., 2009	Hungary Urban and rural	Adults (36-55 years old) 68% female	Case-control study (n=388)	Unemployment	Fatal suicide	Bivariate
Altinahahtar et al., 2009	Turkey Community based (rural and urban)	n/a age n/a gender	Economic modelling (n=n/a)	National income	Fatal suicide	Multivariate
Aydin et al., 2010	Turkey Community based	Adolescents, adults and older adults (11-88 years old) 41% female	Cross-sectional study (n=169)	Economic/ financial problems	Fatal suicide	Descriptive
				Unemployment	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Demirci et al., 2009	Turkey Community based	Adults and older adults (19+ years old) 38% female	Case report/case series (n=16)	Unemployment	Fatal suicide	Descriptive
Drevinja et al., 2013	Kosovo Community based	n/a age n/a gender	Case report/case series (n=270)	Unemployment	Fatal suicide	Descriptive
Polatöz et al., 2011	Turkey Community based	Adolescents and adults (13-64 years old) 55% female	Cross-sectional study (n=1117)	Economic status and wealth assets	Non-fatal suicide	Bivariate
Stevovic et al., 2011	Serbia Community based	Adolescents, adults and older adults (13+ years old) 27% female	Cross-sectional study (n=303)	Economic/ financial problems	Fatal suicide	Descriptive
				Unemployment	Fatal suicide	Descriptive
Toprak et al., 2011	Turkey Community based (rural and urban)	Adolescents and adults (13-64 years old) , students 54% female	Cross-sectional study (n=636)	Economic status and wealth assets	Non-fatal suicide	Bivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
				Economic status and wealth assets	Non-fatal suicide	Bivariate
				Economic status and wealth assets	Non-fatal suicide	Multivariate
Toros et al., 2004	Turkey School based (rural and urban)	Children, adolescents and adults (10-20 years old) n/a gender	Cross-sectional study (n=4143)	Economic status and wealth assets	Non-fatal suicide	Bivariate
SEARO						
Bansal et al., 2011	India Hospital based (rural and urban)	Adolescents, adults and older adults (13+ years old) 58% female	Cross-sectional study (n=100)	Unemployment	Non-fatal suicide	Descriptive
Chowdhury et al., 2010	India Clinic based (rural and urban)	Children, adolescents, adults and older adults (n/a age) 62% female	Case report/case series (n=1614)	Unemployment	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Fernando et al., 2010	Sri Lanka Hospital based	Children, adolescents, adults and older adults (n/a age) 38% female	Cross-sectional study (n=151)	Unemployment	Fatal suicide	Descriptive
Feroz et al., 2012	Bangladesh Community based (rural)	Adolescents, adults and older adults (13+ years old) 74% female	Cross-sectional study (n=3551 households; n=12422 individuals)	Economic status and wealth assets	Fatal suicide	Descriptive
				Economic status and wealth assets	Fatal suicide	Descriptive
				Economic status and wealth assets	Fatal suicide	Descriptive
				Economic status and wealth assets	Non-fatal suicide	Descriptive
				Economic status and wealth assets	Non-fatal suicide	Descriptive
				Economic status and wealth assets	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
Gedela et al., 2008	India Community based (rural)	n/a age, farmers n/a gender	Cross-sectional study (n=74)	Debt	Fatal suicide	Multivariate
				Economic status and wealth assets	Fatal suicide	Multivariate
				Economic status and wealth assets	Fatal suicide	Multivariate
Gururaj et al., 2004	India Community based (urban)	Children, adolescents, adults and older adults (n/a age) 33% female	Case-control study (n=538)	Debt	Fatal suicide	Bivariate
				Economic/ financial problems	Fatal suicide	Bivariate
				Unemployment	Fatal suicide	Bivariate
				Unemployment	Fatal suicide	Multivariate
Joshi et al., 2010	India Hospital based (rural and urban)	Children, adolescents and adults (0-64 years old) 33% female	Cross-sectional study (n=350)	Economic status and wealth assets	Non-fatal suicide	Descriptive
Kale et al., 2011a	India	n/a age, farmers	Cross-sectional study	Debt	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (rural)	n/a gender	(n=200)			
				Economic crisis	Fatal suicide	Descriptive
				Unemployment	Fatal suicide	Descriptive
Kale et al., 2011b	India	n/a age, farmers	Case-control study (n=80)	Debt	Fatal suicide	Descriptive
	Community based (rural)	n/a gender		Economic crisis	Fatal suicide	Descriptive
				Economic/ financial problems	Fatal suicide	Descriptive
Kaur et al., 2010	India	n/a age, farmers	Case-control study (n=120 families)	Debt	Fatal suicide	Bivariate
	Community based (rural)	n/a gender		Economic status and wealth assets	Fatal suicide	Bivariate
Manoranjitham et al., 2010	India	Children, adolescents, adults and older adults (n/a age)	Case-control study (n=200)	Economic status and wealth assets	Fatal suicide	Bivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (rural)	41% female		Economic/ financial problems	Fatal suicide	Bivariate
				Unemployment	Fatal suicide	Bivariate
Manuel et al., 2008	Sri Lanka	Adolescents and adults (13-64 years old)	Ecological study (n=189)	Unemployment	Fatal suicide	Multivariate
	Hospital based (rural)	n/a gender		Unemployment	Non-fatal suicide	Multivariate
Mashreky et al., 2013	Bangladesh	Children, adolescents, adults and older adults (n/a age)	Cross-sectional study (n=171366 households)	Economic status and wealth assets	Fatal suicide	Descriptive
	Community based (rural and urban)	55% female		Unemployment	Fatal suicide	Descriptive
Mohanty et al., 2005	India	n/a age, farmers	Interrupted-time series (n=66)	Debt	Fatal suicide	Descriptive
	Community based (rural)	n/a gender		Economic/ financial problems	Fatal suicide	Descriptive
Mohanty et al.,	India	Children, adolescents, adults and older adults (n/a age)	Retrospective cohort	Economic status	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
2007	Hospital and community based (rural and urban)	n/a gender	study (n=588)	and wealth assets		
Mukhopadhyay et al., 2012	India Community based (rural and urban)	Adolescents (13-18 years old) 30% female	Cross-sectional study (n=2068)	Economic status and wealth assets	Non-fatal suicide	Multivariate
Nagthan et al., 2011	India Community based (rural)	Adults and older adults (19+ years old), farmers 3.34% female	Case-control study (n=60)	Debt	Fatal suicide	Descriptive
Nath et al., 2012	India Community based (urban)	Adolescents and adults (13-64 years old), students 61% female	Cross-sectional study (n=1817)	Economic/ financial problems	Non-fatal suicide	Multivariate
Pandey et al., 2009	India Community based (rural and urban)	n/a age n/a gender	Economic modelling (n=n/a)	National income	Fatal suicide	Multivariate
Parkar et al., 2012	India	Children, adolescents and adults (0-64 years old)	Case report/case series (n=50)	Economic/ financial problems	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (urban)	56% female				
Pawan et al., 2012	India Hospital based (rural and urban)	Children, adolescents and adults (0-64 years old) 43% female	Cross-sectional study (n=89)	Economic status and wealth assets	Non-fatal suicide	Descriptive
Saddichha et al., 2010	India Community based (rural and urban)	Children, adolescents, adults and older adults (n/a age) 44% female	Cross-sectional study (n=40541)	Economic status and wealth assets	Non-fatal suicide	Descriptive
Sauvaget et al., 2009	India Community based (rural)	Adults and older adults (35+ years old) 62% female	Cohort study (n=131720)	Economic status and wealth assets Economic status and wealth assets	Fatal suicide Fatal suicide	Bivariate Multivariate
Singh et al., 2009	India Community based (rural and urban)	Children, adolescents, adults and older adults (n/a age) 40% female	Interrupted-time series (n=1298)	Unemployment	Fatal suicide	Descriptive
Zaheer et al., 2009	India Hospital based (rural and urban)	Children, adolescents, adults and older adults (n/a age) 40% female	Cross-sectional study (n=104)	Economic/ financial problems	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
				Unemployment	Non-fatal suicide	Descriptive
WPRO						
Dai et al., 2011	China Community based (rural)	Adolescents and adults (16-34 years old) 53% female	Cross-sectional study (n=1654)	Economic status and wealth assets	Non-fatal suicide	Multivariate
				Economic status and wealth assets	Non-fatal suicide	Multivariate
Gong et al., 2011	China Community based (rural)	Adolescents, adults and older adults (13+ years old) 61% female	Cross-sectional study (n=3821)	Economic status and wealth assets	Non-fatal suicide	Bivariate
				Economic status and wealth assets	Non-fatal suicide	Multivariate
Hong et al., 2007	China	Children, adolescents, adults and older adults (n/a age), sex workers	Cross-sectional study (n=454)	Economic/ financial problems	Non-fatal suicide	Multivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (rural)	100% female				
Kong & Zhang, 2010	China Community based (rural)	Children and adults (13-64 years old) 47% female	Case-control study (n=740)	Economic status and wealth assets	Fatal suicide	Bivariate
Ma et al., 2009	China Community based (rural and urban)	Adolescents, adults and older adults (13+ years old) 54% female	Cross-sectional study (n=5926)	Economic status and wealth assets	Non-fatal suicide	Bivariate
				Economic status and wealth assets	Non-fatal suicide	Multivariate
Thanh et al., 2006	Vietnam Community based (urban)	Adolescents, adults and older adults (13+ years old) 52% female	Cross-sectional study (n=2280)	Economic status and wealth assets	Non-fatal suicide	Bivariate
				Economic status and wealth assets	Non-fatal suicide	Multivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
				Unemployment	Non-fatal suicide	Bivariate
Wan et al., 2011	China School based (urban)	Adolescents (13-18 years old) 51% female	Cross-sectional study (n=17622)	Economic status and wealth assets	Non-fatal suicide	Bivariate
Xie et al., 2012	China Hospital based	Adolescents, adults and older adults (13+ years old), patients with systemic lupus erythematosus 94% female	Cross-sectional study (n=285)	Economic/ financial problems	Non-fatal suicide	Multivariate
				Economic/ financial problems	Non-fatal suicide	Bivariate
Zhang et al., 2006	China Hospital based (urban)	n/a age 46% female	Case-control study (n=166)	Economic status and wealth assets	Non-fatal suicide	Bivariate
Zhang et al., 2009	China	n/a age	Case-control study (n=132)	Unemployment	Non-fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (rural)	46% female				
Zhang et al., 2010	China Community based (rural and urban)	n/a age n/a gender	Interrupted-time series (n=n/a)	National income	Fatal suicide	Multivariate
Multiple						
Afroz et al., 2012	3 countries Thailand [*Japan, South Korea] Community based (rural and urban)	Adults (15-44 years old) n/a gender	Ecological study (n=n/a)	National income	Fatal suicide	Descriptive
Blasco-Fontecilla et al., 2012	56 countries AMR B (Argentina, Brazil, Chile, Colombia, Costa Rica, El Salvador, Mexico, Panama, St. Lucia, Trinidad)	n/a age n/a gender	Interrupted-time series (n=n/a)	National income	Fatal suicide	Bivariate

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	and Tobago and Venezuela) AMR D (Ecuador and Guatemala) SEAR D (India) WPR B (China and South Korea) AFR D (Mauritius) [*AMR A (Canada and the USA) EUR A (Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Israel, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovenia, Spain, Sweden, Switzerland and the UK) EUR B (Bulgaria, Georgia, Macedonia, Poland, Romania and the Slovak Republic) EUR C (Estonia, Hungary, Latvia and Lithuania); WPR A (Australia, New Zealand, Japan and Singapore)]					

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Community based (rural and urban)					
Borges et al., 2010	21 countries Brazil, Bulgaria, China, Colombia, India, Lebanon, Mexico, Nigeria, Romania, South Africa, Ukraine; [*Belgium, France, Germany, Israel, Italy, Japan, Netherlands, New Zealand, Spain, United States] Community based (rural and urban)	Adults (n/a age) n/a gender	Cross-sectional study (n=108705)	Unemployment	Non-fatal suicide	Bivariate
				Economic/ financial problems	Non-fatal suicide	Bivariate
				Economic/ financial problems	Non-fatal suicide	Bivariate
				Relative poverty	Non-fatal suicide	Bivariate
				Relative poverty	Non-fatal suicide	Bivariate
				Unemployment	Non-fatal suicide	Bivariate
Fleischmann et	8 countries	Children, adolescents, adults and older adults (n/a age)	Cross-sectional study	Unemployment	Non-fatal	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
al., 2005	Brazil, China, Estonia, India, Iran, South Africa, Sri Lanka, Vietnam Hospital based (rural and urban)	60.5% female	(n=4314)		suicide	
Moniruzzaman et al., 2008	66 countries Low-income countries: Armenia, Azerbaijan, Georgia, Kyrgyzstan, Rep Moldova, Ukraine, Uzbekistan Middle-income countries: Albania, Argentina, Belarus, Brazil, Bulgaria, Chile, Colombia, Costa Rica, Croatia, Cuba, Czech Rep, Ecuador, Egypt, El Salvador, Estonia, Guatemala, Hungary, Kazakhstan, Latvia, Lithuania, Macedonia, Mauritius,	Children, adolescents, adults and older adults (n/a age) n/a gender	Cross-sectional study (n=66 countries)	National income	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Mexico, Panama, Paraguay, Philippines, Poland, Romania, Rush Fed, Slovakia, Slovenia, Thailand, Uruguay, Venezuela [*High-income countries: Australia, Austria, China (HK), Denmark, Finland, Germany, Greece, Ireland, Israel, Italy, Japan, Kuwait, Netherlands, New Zealand, Norway, Portugal, Puerto Rico, Rep Korea, Singapore, Spain, Sweden, Switzerland, UK, USA] Community based					
Yur'yev et al., 2012	26 countries	n/a age	Cross-sectional study (n=26 countries)	Unemployment	Fatal suicide	Descriptive

First author	Setting	Study population	Study design (sample size)	Poverty dimension	Suicide dimension	Analysis
	Bulgaria Hungary Romania Ukraine [*Belgium, Croatia, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Israel, the Latvia, Netherlands, Norway, Poland, Portugal, the Russian Federation, Slovakia, Slovenia, Spain, Sweden, Switzerland and the UK] Community based	n/a gender				

Note: WHO regions: region of the Americas (AMRO), African region (AFRO), Eastern Mediterranean region (EMRO), European region (EURO), South-East Asia region (SEARO), and the Western Pacific region (WPRO). n/a Not available. ^aStudy quality: high (++), acceptable (+), low (-).

Appendix 2

Poverty indicators and measures, by poverty dimension (N=84)

Poverty dimension	Study	Setting	Poverty indicator	Poverty measure
Individual level				
Relative poverty	Borges et al., 2010	21 countries	Family income defined into four categories based on the ratio of income to number of family members relative to the official poverty line	self-reported as part of WHO Composite International Diagnostic Interview
	Grigoriev, Doblhammer-Reiter, & Shkolnikov, 2013	Belarus	Proportion of people with income below the poverty line	Income and Expenditure of Households Sample Survey
Economic status and wealth assets	Dai et al., 2011	China	Perceived financial status	self-reported
	Feroz et al., 2012	Bangladesh	Wealth measured by family land ownership classified as landless, <2	as reported by heads of households

		acres, 2 or more acres	
		Socio-economic status measured as lower, lower-middle, middle or upper class on the basis of a composite score of: earning capacity, housing status, possession of essential and luxury goods in the family	
		Monthly combined family income	
Gedela, 2008	India	Value of livestock	as reported by family
		Value of agricultural produce	
Gong, Zhang, Wang, & Liang, 2011	China	Family economic status in the previous year, defined as good, fair or poor	self-reported
Joshi, Joshi, Nigam, Joshi, & Prakash,	India	Socio-economic status classified as low, middle or high	self-reported

2010

Kaur, Dhaliwal, & Singh, 2010	India	Income from dairy farming, income from non-farming sources, and income from crops	as reported by family
Keyvanara, Mousavi, & Karami, 2013	Iran	Socio-economic status	composite measure of economic status determined by: patient's income, education, accommodation, occupation; his/her spouse' job; house and land ownership as well as car type and model; variety of consumption and purchase of equipment for home (such as clothes and other necessities); personal consumptions; and the person's life style and family life style (such as travel, food, sport and using outdoor foods)
Kinyanda, Hjelmeland, & Musisi, 2004	Uganda	Family's total income per month (in Uganda shillings)	self-reported

Kong & Zhang, 2010	China	Annual family income	as collected via psychological autopsy
Ma et al., 2009	China	Monthly income	self-reported
Manoranjitham et al., 2010	India	Monthly family income less than 2400 Indian Rupees	self-reported
Mashreky, Rahman, & Rahman, 2013	Bangladesh	Monthly family income	as reported by family
Mohanty, Sahu, Mohanty, & Patnaik, 2007	India	Socio-economic status categorized into three categories, depending on the income per family per year (i.e. up to Rupees 50,000 = lower, Rupees 50,001 to 1,50,000 = middle, and more than Rupees 1,50,000 = upper)	as reported by victim's acquaintances
Mukhopadhyay, Mukhopadhyay, Sinhababu, &	India	Perceived economic status (SES) was categorized as high (very well off/living comfortably) or low (just	self-reported

Biswas, 2012		getting by/almost poor/poor)	
Pawan, Mohan, Kalita, & Nitin, 2012	India	Socio-economic status classified as Upper, Upper-Middle, Lower-Middle, Upper-Lower, Lower	as measured by Kuppuswami scale of socioeconomic classification
Polatöz, Kuğu, Doğan, & Akyüz, 2011	Turkey	Level of family income, classified as high, middle and low	Socio-demographic information form
Qaisar et al., 2014	Pakistan	Socioeconomic status	self-reported
Saddichha, Vibha, Saxena, & Methuku, 2010	India	Socio-economic status classified as above or below the poverty line on the basis of family monthly income	self-report
Sauvagat et al., 2009	India	Monthly household income	as reported by family
Thanh, Trung, Jiang, Leenaars, & Wasserman, 2006	Vietnam	Socio-economic status classified as high or low on the basis of mean monthly family income	self-reported

	Toprak, Cetin, Guyen, Can, & Demircan, 2011	Turkey	Level of income, classified as low or high	self-reported
	Toros, Bilgin, Sasmaz, Bugdayci, & Camdeviren, 2004	Turkey	Family monthly income	self-reported
	Wan, Hu, Hao, Sun, & Tao, 2011	China	Perceived family economic status	self-reported
	Zhang, Jia, Jiang, & Sun, 2006	China	Perception of socioeconomic status	self-reported
	Adinkrah, 2011	Ghana	Employment status and type of employment	police records
Unemployment	Ahmadi, Mohammadi, Stavrinos, Almasi, &	Iran	Employment status	as reported by family members

Schwebel, 2008

Ahmadi et al., 2009	Iran	Employment status	self-reported
Alimohammadi, Mehrpisheh, & Memarian, 2013	Iran	Employment status	mortuary records
Aliverdina & Pridemore, 2009	Iran	Unemployment rate among working aged females	official statistics
Almasi et al., 2009	Hungary	Employment status	police records
Aydin & Kartal, 2010	Turkey	Employment status	official judicial records
Bansal & Barman, 2011	India	Employment status	self-reported
Borges et al., 2010	21 countries	Employment status	self-reported as part of WHO Composite International Diagnostic Interview
Chowdhury et al.,	India	Reasons for engaging in deliberate	self-reported

2010			self-harm	
Demirci, Dogan, Erkol, & Deniz, 2009	Turkey	Employment status		as recorded in mortuary records
Drevinja, Berisha, Serreqi, Statovci, & Haxhibeqiri, 2013	Kosovo	Employment status		as recorded in hospital records
Ekramzadeh et al., 2012	Iran	Employment status		self-reported
Fernando, Hewagama, Priyangika, Range, & Karunaratne, 2010	Sri Lanka	Employment status		as reported by close friend or family
Fleischmann et al., 2005	8 countries	Employment status		self-reported
Ghaleiha, Afzali,	Iran	Employment status		self-reported

Bazyar, Khorsand, &
Torabian, 2012

Grigoriev, Belarus Unemployment rate official statistics
Doblhammer-Reiter,
& Shkolnikov, 2013

Gururaj, Isaac, India Employment status as collected via psychological autopsy with family
Subbakrishna, & members
Ranjani, 2004

Jena, Mountany, & South Employment status official records
Muller, 2009 Africa

Kale, 2011a India Employment status as collected via psychological autopsy with family
members

Keyvanara, Mousavi, Iran Employment status self-reported
& Karami, 2013

Khan, Mahmud, Pakistan Employment status as collected via psychological autopsy with friends or

Karim, Zaman, & Prince, 2008			family members
Kinyanda, Hjelmeland, & Musisi, 2004	Uganda	Employment status	self-reported
Lari, Joghataei, Adli, Zadeh, & Alaghebandan, 2007	Iran	Employment status	hospital records
Manoranjitham et al., 2010	India	Employment status	self-reported
Manuel et al., 2008	Sri Lanka	Unemployment rate	official statistics
Mashreky, Rahman, & Rahman, 2013	Bangladesh	Employment status	as reported by family
Naidoo &	South	Employment status	self-reported, as measured by a WHO-validated

Schlebusch, 2013	Africa		questionnaire
Nojomi et al., 2006	Iran	Employment status	as recorded in hospital records
Nojomi et al., 2007	Iran	Employment status	self-reported
Nojomi et al., 2008	Iran	Employment status	self-reported
Ovuga, Boardman, & Wassermann, 2005	Uganda	Employment status	self-reported
Qaisar et al., 2014	Pakistan	Employment status	self-reported
Ramim, Mobayen, Shoar, Naderan, & Shoar, 2013	Iran	Employment status	self-reported
Sabzghabae et al., 2013	Iran	Employment status	self-reported
Sadr et al., 2013	Iran	Employment status	self-reported
Singh, 2009	India	Employment status	as recorded in hospital records

Stevovic, Jasovic-Gasic, Vukovic, Pekovic, & Terzic, 2011	Serbia	Employment status	official records
Tahir, Memon, Kumar, & Ali, 2010	Pakistan	Employment status	self-reported
Tahir et al., 2013	Pakistan	Employment status	as reported by family
Thanh, Trung, Jiang, Leenaars, & Wasserman, 2006	Vietnam	Employment status	self-reported
Yur'yev, Vaernik, Vaernik, Sisask, & Leppik, 2012	26 countries	National employment rates	official statistics

	Zaheer, Aslam, Vibhanshu, Vibhor, & Khan, 2009	India	Employment status	self-reported
	Zhang & Zhou, 2009	China	Employment status	self-reported
	Aydin & Kartal, 2010	Turkey	Economic problems	as reported by parents of suicide victim
	Borges et al., 2010	21 countries	Economic adversity	self-reported as part of WHO Composite International Diagnostic Interview
	du Toit et al., 2008	South Africa	Reasons for attempted suicide	self-reported
Economic/financial problems	Gururaj, Isaac, Subbakrishna, & Ranjani, 2004	India	Sudden economic bankruptcy; chronic financial problems; poverty in last 12 months and poverty since childhood	as collected via psychological autopsy with family members
	Hemmat et al., 2004	Iran	Reasons given for self-immolation	self-reported
	Hong, Li, Fang, &	China	Financial concerns	self-reported

Zhao, 2007

Kale, 2011b India Gap between farmer's income and liabilities as reported by family

Khan, Mahmud, Pakistan Financial difficulties as collected via psychological autopsy with friends or
Karim, Zaman, & family members
Prince, 2008

Kinyanda, Uganda Financial difficulties self-reported
Hjelmeland, & Musisi,
2004

Lari, Joghataei, Adli, Iran Reason given for self-burning as collected via psychological autopsy with family
Zadeh, & members
Alaghebandan,
2007

Lari, Alaghebandan, Iran Reason given for self-burning as collected via psychological autopsy with family
Panjeshahin, & members
Joghataei, 2009

Manoranjitham et al., 2010	India	History of recent major financial crisis	self-reported
Mohanty, 2005	India	Reason given for the farmer's suicide	as collected via psychological autopsy with family members
Moosa, Jeenah, & Vorster, 2005	South Africa	Financial difficulties	self-reported
Nath, Paris, Thombs, & Kirmayer, 2012	India	Perceived level of stress due to economic circumstances	self-reported
Parkar, Nagarsekar, & Weiss, 2012	India	Reports of financial problems/debt	as collected via sociocultural autopsy with living relatives
Stevovic, Jasovic- Gasic, Vukovic, Pekovic, & Terzic, 2011	Serbia	Reasons given for suicide	as collected via psychological autopsy with friends or family members
Xie et al., 2012	China	Financial burden of having lupus	self-reported

			(categorised as no, low, moderate, and heavy burden)	
	Zaheer, Aslam, Vibhanshu, Vibhor, & Khan, 2009	India	Financial difficulties	self-reported
Debt	Gedela, 2008	India	Outstanding debt per hectare	as reported by family
	Gururaj, Isaac, Subbakrishna, & Ranjani, 2004	India	Presence of large loan	as collected via psychological autopsy with family members
	Kale, 2011a	India	Value of debt	official records
	Kale, 2011b	India	Value of farmers debt	as reported by family
	Kaur, Dhaliwal, & Singh, 2010	India	Total loan outstanding	as reported by family
	Mohanty, 2005	India	Reason given for the farmer's suicide (crop losses and indebtedness,	as collected via psychological autopsy with family members

			farmers unable to recover costs of cultivation)	
	Nagthan, Rajendra, Kunnal, Basvaraja, & Basavaraj, 2011	India	Financial debt	as reported by family
Support from the welfare system	Aliverdina & Pridemore, 2009	Iran	Percentage of the population receiving support from the Iranian welfare system	official statistics
Country level				
Economic crisis	Kale, 2011a	India	Financial circumstances	as collected via psychological autopsy with family members
	Kale, 2011b	India	Annual income	as reported by family
National income	Afroz, Moniruzzaman, Stark	3 countries	GNP per capita	official statistics

Ekman, & Andersson,

2012

Altinanahtar & Turkey Per capita real income official statistics

Halicioglu, 2009

Bando, Brunoni, Brazil GDP per capita official statistics

Bensenor, & Lotufo,

2012

Blasco-Fontecilla et 56 PPP-adjusted GDP per capita (PPP = as obtained from the World Bank official statistics

al., 2012 countries purchasing power parity)

Botha, 2012 South Inflation rate in each region as a official statistics

Africa proxy for economic performance

Faria, Victora, Brazil GDP per capita official statistics

Meneghel, De

Carvalho, & Falk,

2006

	Moniruzzaman & Andersson, 2008	66 countries	Mean Gross National Income per capita	official statistics
	Pandey & Kaur, 2009	India	GDP per capita	official statistics
	Zhang et al., 2010	China	Per capita GDP adjusted for inflation	official statistics
Composite poverty measure	Faria, Victora, Meneghel, De Carvalho, & Falk, 2006	Brazil	HDI-income (HDI = Human Development Index)	official statistics

Appendix 3

SIB indicators and measures, by SIB dimension (fatal/non-fatal SIB) (N=84)

Study	Setting	SIB indicator	SIB measure
Fatal SIB			
Adinkrah, 2011	Ghana	Number of fatal suicides	police records
Afroz, Moniruzzaman, Stark Ekman, & Andersson, 2012	3 countries	National rate of fatal suicide	WHO mortality database
Ahmadi, Mohammadi, Stavrinou, Almasi, & Schwebel, 2008	Iran	Rates of self-immolation for each province in Iran	official records
Alimohammadi, Mehrpisheh, & Memarian, 2013	Iran	Number of fatal suicides	mortuary records
Aliverdinia & Pridemore, 2009	Iran	Number of fatal suicides	Women's Participation Centre Records
Almasi et al., 2009	Hungary	Number of fatal suicides	police records
Altinanahtar & Halicioglu, 2009	Turkey	Number of fatal suicides	official records
Aydin & Kartal, 2010	Turkey	Number of fatal suicides	official judicial records

Bando, Brunoni, Bensor, & Lotufo, 2012	Brazil	Number of fatal suicides	death registry databases
Blasco-Fontecilla et al., 2012	56 countries	Suicide rate	WHO mortality database
Botha, 2012	South Africa	Number of fatal suicides	official death notification
Demirci, Dogan, Erkol, & Deniz, 2009	Turkey	Number of fatal suicides	mortuary records
Drevinja, Berisha, Serreqi, Statovci, & Haxhibeqiri, 2013	Kosovo	Number of fatal suicides	hospital records
Eskandarieh, Hajebi, Saberi-Zafarghandi, Vares-Vazirian, & Asadi, 2012	Iran	Number of fatal suicides	self-reported
Faria, Victora, Meneghel, De Carvalho, & Falk, 2006	Brazil	Number of fatal suicides	official records of cause of death
Fernando, Hewagama, Priyangika, Range, & Karunaratne, 2010	Sri Lanka	Number of fatal suicides	official judicial records of cause of death
Feroz et al., 2012	Bangladesh	Number of fatal suicides	reported by heads of households
Gedela, 2008	India	Number of fatal suicides	local legal death registers

Grigoriev, Doblhammer-Reiter, & Shkolnikov, 2013	Belarus	Number of fatal suicides	National Committee of Statistics of Belarus
Gururaj, Isaac, Subbakrishna, & Ranjani, 2004	India	Number of fatal suicides	police records
Jena, Mountany, & Muller, 2009	South Africa	Number of fatal suicides	official Medico-Legal Laboratory records
Kale, 2011a	India	Number of fatal suicides	death registers
Kaur, Dhaliwal, & Singh, 2010	India	Number of fatal suicides	police records
Khan, Mahmud, Karim, Zaman, & Prince, 2008	Pakistan	Number of fatal suicides	police records
Kong & Zhang, 2010	China	Number of fatal suicides	official records
Lari, Joghataei, Adli, Zadeh, & Alaghebandan, 2007	Iran	Number of fatal suicides by self-inflicted burn	hospital records
Manoranjitham et al., 2010	India	Number of fatal suicides	official suicide surveillance system
Manuel et al., 2008	Sri Lanka	Number of fatal suicides	hospital records
Mashreky, Rahman, & Rahman, 2013	Bangladesh	Number of fatal suicides	household interview using National and Dhaka metropolitan surveys

Mohanty, 2005	India	Number of fatal suicides over 3 year period in Amravati and Yavatmal Districts	official death records
Mohanty, Sahu, Mohanty, & Patnaik, 2007	India	Number of fatal suicides	official coroner records
Moniruzzaman & Andersson, 2008	66 countries	Number of fatal suicides	WHO mortality database
Nagthan, Rajendra, Kunnal, Basvaraja, & Basavaraj, 2011	India	Number of fatal suicides	official records of Joint Director of Agriculture and Deputy Commissioner Offices
Pandey & Kaur, 2009	India	National rate of fatal suicide	official records
Parkar, Nagarsekar, & Weiss, 2012	India	Number of fatal suicides	police reports
Sauvaget et al., 2009	India	Number of fatal suicides	official death register
Singh, 2009	India	Number of fatal suicides	hospital records
Stevovic, Jasovic-Gasic, Vukovic, Pekovic, & Terzic, 2011	Serbia	Number of fatal suicides	police records
Tahir, Memon, Kumar, & Ali, 2013	Pakistan	Number of fatal suicides	official records of emergency services

Yur'yev, Vaernik, Vaernik, Sisask, & Leppik, 2012	26 countries	Number of fatal suicides	WHO European mortality database
Zhang et al., 2010	China	National rates of fatal suicides	official records
Non-fatal SIB			
Ahmadi et al., 2009	Iran	Hospital admission following intentional self-burning	hospital records
Bansal & Barman, 2011	India	Number of hospital admissions for deliberate self-harm	hospital records
Borges et al., 2010	21 countries	12 month planned and unplanned suicide attempt, suicide plan and suicidal ideation	self-reported as part of WHO Composite International Diagnostic Interview
Chowdhury et al., 2010	India	Number of cases of self-harm	clinic records
Dai et al., 2011	China	Suicide attempt	self-report as part of National Comorbidity Survey
Dai et al., 2011	China	Suicidal ideation, serious ideation, suicide plan	self-report as part of National Comorbidity Survey

du Toit et al., 2008	South Africa	Number of hospital admission for suicide attempt	self-reported
Ekramzadeh et al., 2012	Iran	Non-fatal suicidal behaviours	self-reported in response to the Harmful Behaviour Scale; self-reported in response to Beck Scale for Suicidal Ideation Scale; self-reported
Feroz et al., 2012	Bangladesh	Number of suicide attempts	reported by heads of households
Fleischmann et al., 2005	8 countries	Number of suicide attempts	European Parasuicide Study Interview Schedule
Ghaleiha, Afzali, Bazayr, Khorsand, & Torabian, 2012	Iran	Number of hospital admissions for suicide attempts	hospital records
Gong, Zhang, Wang, & Liang, 2011	China	Six-months prevalence of suicidal thoughts, suicidal attempts or self-injury	self-reported
Hemmat et al., 2004	Iran	Number of suicide attempts by self-immolation	hospital records

Hong, Li, Fang, & Zhao, 2007	China	Six-month prevalence of suicidal ideation or suicidal attempt among sex workers	self-reported
Joshi, Joshi, Nigam, Joshi, & Prakash, 2010	India	Number of hospital admissions for suicide attempt	self-reported
Keyvanara, Mousavi, & Karami, 2013	Iran	Hospital admissions for self-harm	hospital record
Kinyanda, Hjelmeland, & Musisi, 2004	Uganda	Life-time prevalence of suicide attempt	European Parasuicide Study Interview Schedule
Kinyanda, Kizza, Levin, Ndyabangi, & Abbo, 2011	Uganda	Suicidal ideation, self-harm and suicide attempt	Mini International Neuropsychiatric Interview (MINI) for children and adolescents to measure adolescent suicidality
Lari, Alaghebandan, Panjeshahin, & Joghataei, 2009	Iran	Hospital admission for suicide attempt by self-inflicted burn	hospital record
Ma et al., 2009	China	Life-time prevalence of suicidal ideation and plans, and suicidal attempts	self-reported

Manuel et al., 2008	Sri Lanka	Hospital admission for suicide attempt	hospital records
Moosa, Jeenah, & Vorster, 2005	South Africa	Hospital admission for suicide attempt	hospital records
Mukhopadhyay, Mukhopadhyay, Sinhababu, & Biswas, 2012	India	12-month prevalence of suicide ideation and attempt	self-reported
Naidoo & Schlebusch, 2013	South Africa	Number of admissions to hospital following a suicide attempt	hospital records
Nath, Paris, Thombs, & Kirmayer, 2012	India	Suicidal ideation or suicidal attempt	self-reported
Nojomi et al., 2006	Iran	Hospital admission for suicide attempt	hospital records
Nojomi et al., 2007	Iran	Suicide ideation, plans, attempts	WHO SUPRE-MISS questionnaire with specific questions on suicide and related factors
Nojomi et al., 2008	Iran	Hospital admission for suicide attempt	hospital records
Ovuga, Boardman, & Wassermann, 2005	Uganda	Life-time and one-week prevalence of suicidal ideation	Beck Scale for Suicide Ideation
Pawan, Mohan, Kalita, & Nitin, 2012	India	Hospital treatment for self-harm	hospital records

Polatöz, Kuğu, Doğan, & Akyüz, 2011	Turkey	Suicidal ideation and intent	Suicidal Behaviour Questionnaire, Suicidal Intent Scale and Suicidal Ideation Scale
Qaisar et al., 2014	Pakistan	History of deliberate self-poisoning	self-reported
Ramim, Mobayen, Shoar, Naderan, & Shoar, 2013	Iran	Attempted suicide by self-burning	self-reported
Sabzghabae et al., 2013	Iran	Hospital admission for attempted suicide by self-poisoning	self-reported
Saddichha, Vibha, Saxena, & Methuku, 2010	India	Hospital admission for suicide attempt	hospital records
Sadr et al., 2013	Iran	Hospital admissions following a suicide attempt	hospital records
Tahir, Memon, Kumar, & Ali, 2010	Pakistan	Hospital admission for self-inflicted burn	hospital records
Tahir et al., 2013	Pakistan	Number of suicide attempts	official records of emergency services
Thanh, Trung, Jiang, Leenaars, & Wasserman, 2006	Vietnam	Lifetime and 12-month prevalence of prevalence suicidal thoughts	self-reported in response to SUPRE-MISS community survey questionnaire

Toprak, Cetin, Guven, Can, & Demircan, 2011	Turkey	Life time prevalence of self-harm, suicidal ideation, suicidal attempt	self-reported
Toros, Bilgin, Sasmaz, Bugdayci, & Camdeviren, 2004	Turkey	Suicide attempt	self-reported
Wan, Hu, Hao, Sun, & Tao, 2011	China	12-month prevalence of self-harm	self-reported
Xie et al., 2012	China	Life-time and 12-month prevalence of suicidal ideation	Beck Depression Inventory, Family APGAR and Trait Coping Style Questionnaire
Zaheer, Aslam, Vibhanshu, Vibhor, & Khan, 2009	India	Hospital admission for self-poisoning	hospital records
Zhang, Jia, Jiang, & Sun, 2006	China	Suicide attempt	Semi-structured questionnaire including 8 questions selected from Beck's Suicidal Intent Scale
Zhang & Zhou, 2009	China	Previous suicide attempts and suicidal ideation / intention	self-report; Beck's Suicide Intent Scale

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