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What do we know about the extent of illicit meth/amphetamine use and dependence? Results of a global systematic review

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WHAT DO WE KNOW ABOUT THE EXTENT OF ILLICIT METH/AMPHETAMINE USE AND DEPENDENCE? RESULTS OF A GLOBAL SYSTEMATIC REVIEW

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EXECUTIVE SUMMARY

Aims: Systematically review existing data on the prevalence of meth/amphetamine use and dependence. The aims of this paper are to: (1) describe the available international data on meth/amphetamine use and dependence; and (2) identify priorities for improving the quality and coverage of such estimates.

Methods: Multiple search strategies: a) peer-reviewed literature searches (1990-2008) using methods recommended by the Meta-analysis of Observational Studies in Epidemiology (MOOSE) group; b) systematic searches of online databases; c) Internet searches to find any other evidence of use; d) repeated consultation and feedback from experts around the globe; e) a viral email sent to lists in the HIV and illicit drug fields. Culling and data extraction followed manualised protocols, with in-built systems of cross-checking and internal consistency. Data were extracted and graded according to predefined variables and quality scored. This paper reports the most recent and highest graded prevalence estimate for the general population and school population and reports the proportion of coverage of the world's population for use and dependence estimates, general population and school surveys, age and sex specific estimates, and most recent year of estimates.

Results: There was some evidence of meth/amphetamine use or dependence in 181 countries/territories, comprising 99% of the world's population aged 15-64 years but there were no prevalence estimates in 104 of these countries. This was common in Asia, Oceania and Africa. School surveys were the most common method used (74 countries); general population surveys of meth/amphetamine use had been conducted in 48 countries. Nine countries had estimated the prevalence of dependence since 1990 (8% of the world's population 15-64 years). Estimates of past-year use varied extremely widely; past-year dependence estimates were all less than 1% (0.10-0.74%). Age ranges, methodologies and definitions of "amphetamines" differed widely.

Conclusions: There is a global imperative to improve data on the extent of meth/amphetamine use and dependence. There were large gaps in dependence estimates even in high income countries that have the resources and infrastructure to carry out such studies. Public and policy concern about this issue has been increasing largely in the absence of any data on the extent of this "problem". Any policies or other responses requiring some notion of "scale" are likely to be poorly targeted until this situation changes.

1. INTRODUCTION

In the past two decades, there has been a global increase in the illicit production and use of amphetamine type stimulants (ATS) (1, 2). Amphetamines are central nervous system (CNS) stimulants that were first synthesised more than a century ago for medical use. Multiple forms of amphetamines exist, including diverted pharmaceutical amphetamines: methamphetamine and amphetamine are thought to be the most commonly used types (1, 2). They can come in pill, powder or crystalline forms that vary in purity; they can be taken via different routes: pills are most typically swallowed, whereas the crystalline form can be smoked, injected, or heated and its vapours inhaled.

There is good evidence for a meth/amphetamine dependence syndrome (e.g. (3-5). Dependence involves a cluster of symptoms that include tolerance to a drug's effects and impaired control over drug use, with continued use in the face of recurrent problems that the user knows (or believes) to be caused by their drug use(6). Meth/amphetamine dependence typically develops after a period of sustained regular use (7, 8). Meth/amphetamine dependence is increasingly recognised by international and national organisations as a significant public health and public order issue (2, 9).

Meth/amphetamine use and dependence have been documented across the world (10, 11). In the 2009 *World Drug Report*, the United Nations Office on Drugs and Crime (UNODC) estimated that ATS were the second most commonly used illicit drug type worldwide, after cannabis. Its users outnumbered opioid users in all regions except Europe and South Asia(2). UNODC reviews rely upon Member State reporting because UNODC has limited capacity to systematically review both peer-reviewed and grey literature on this topic. To our knowledge there has never been a systematic review of published data on the global prevalence of meth/amphetamine *dependence*.

This article aims to fill both of these gaps by presenting a systematic review of existing data on the prevalence of meth/amphetamine use and dependence. The aims of this paper are to: (1) describe the available international data on meth/amphetamine use and dependence; and (2) identify priorities for improving the quality and coverage of such estimates.

2. Method

According to an approach being used across searches undertaken for the 2005 Global Burden of Disease project (GBD), a systematic review was undertaken for meth/amphetamine dependence and use. Standardised approaches to literature searches, search terms, data collection, data extraction, consistency and error checking, and expert consultation and review were taken. These are mentioned below and are all documented in further detail on the methodology page of the GBD expert group's website: http://www.gbd.unsw.edu.au/gbdweb.nsf/page/Methodology.

2.1. Peer reviewed literature

The search was conducted through numerous stages (see **Text Box 1**). First, searches in the peer-reviewed literature were conducted using a strategy consistent with the methodology

recommended by the Meta-analysis of Observational Studies in Epidemiology (MOOSE) group (12) using a broad search string to interrogate three electronic databases: Medline, EMBASE and PsycINFO. These databases were chosen after consultation with a qualified archivist. Searches focused on studies of human subjects published between 1990 and 2008 inclusive. No limitations were set on language of publication. Search strings, tailored to each database (including keywords, MeSH terms, EMTREE terms and explode terms) were devised for different subjects areas (see **Appendix A** for search strings and **Appendix B** for search string combinations).

Researchers searched LILACS, an online multilingual database, so that articles were not limited to English. Other means to overcome the language limitation were; consulting with experts who spoke languages other than English and conduct research in non-English speaking countries; and asking experts from non-English speaking countries to translate their data or reports into English when data could not be located for that country.

Text Box 1: STAGES OF WORK

Systematic Search

- 1. Three electronic databases were searched (Medline, EMBASE, PsycINFO)
- 2. Hand searching of reference lists of review articles and articles of importance
- 3. Initial cull of peer reviewed literature
- 4. Short list of peer reviewed studies reviewed
- 5. Grey literature web-based searches
- 6. Short list of grey literature studies reviewed
- 7. *Expert comment* (including members of the Mental Disorders and Illicit Drug Use Expert Group) on completeness of included studies from electronic database search and grey literature search.

Data Extraction

- 8. Data extraction into Microsoft Access Database®
- 9. Cross-checking of extracted data
- 10. Web-wide searches for any evidence of use for countries without available prevalence estimates
- 11. De-duplication of studies reported in multiple publications

Expert consultation

- 12. Data requests sent to UNODC and WHO
- 13. List of included studies sent to other researchers with expertise in the area
- 14. Coverage of data reviewed by ATS experts at UNODC
- 15. Email sent to email lists and posted on drug research information websites requesting additional data for countries where no estimates were located

Second, lists of review articles and recommended articles from experts were individually screened for studies that may not have been identified by the electronic database search. Third, abstracts of the identified articles were read and excluded if they did not: focus on meth/amphetamine or prevalence or incidence, include raw data (review articles), include general population samples (school studies were included), included data before 1990 or comprised multiple articles reporting from the same cohort (in which case only the most recent or relevant article was included). Nationally representative studies were preferred over sub-national studies: sub-national studies were conducted in cities which were nationally unrepresentative (typically the largest or capital city).

2.2. Grey Literature

The second stage of the systematic search, conducted during 2008, covered the grey literature. A systematic approach (described in (13)) was used to search databases and websites of government agencies and non-government organisations to identify reports and statistics. Data were collected by one research team member and cross checked by another member of the research team.

2.3. Data Extraction

In the data extraction stage we obtained information about study design and participants as recommend by the Strengthening the Reporting if Observational Studies in Epidemiology (STROBE) guidelines (14, 15), parallel to the CONSORT guidelines for reporting of randomised trials (16).

A Quality Index (see **Appendix C**) was modelled on one developed by John McGrath and Sukanta Saha (17, 18) and modified via the 'Delphi method' following consultation with, and consensus agreement by, the Expert Group (see Acknowledgements) and central GBD project personnel. Quality variable responses were assigned scores that were summed to create a Quality Index score that ranged from 0 to 15, for each study. Highest scores were achieved by general population based cohort studies that provided age and sex disaggregated prevalence estimates. Additional text was also included in the extraction process to capture the diversity of reported methodology. This was used to determine if any studies with a low numeric quality index score should also be included.

A tri-level Microsoft Access[©] database was designed to accommodate the illicit drugs data, which allowed computerised cross-checking of data entered; in addition, a random sample of 10% of data sources was cross-checked by another research team member to check consistency and accuracy of data extraction. Quality assurance was also built into the database by using drop down boxes and restricted entry of characters. Data entry was manualised (see **Appendix D** for database manual including data entry rules). Queries were written to export complete datasets from the database into Microsoft Excel[©].

2.4. Searching for evidence of use in countries without prevalence estimates

Searches for "any evidence of meth/amphetamine use" were conducted using several major approaches. First, reports and surveys that were referenced in the 2008 World Drug Report (19) were sourced. Second, reports and peer-reviewed articles that did not meet inclusion criteria as sources of prevalence estimates, but which include data on the use of amphetamines, were used.

Finally, the Internet was used to search databases and search engines. Searches were also conducted using the following databases: WorldCat, PsychINFO and PubMed; and the following search engines: Google and GoogleScholar, with searches targeted at drug use in specific countries (see **Appendix E** for search strings used). These databases and search engines allowed for the inclusion of a broad range of information sources. Evidence of meth/amphetamine use was identified in a number of grey literature sources, including UNODC reports, government reports, surveys, news reports and journal articles (See Supplementary Table); this "evidence" included data on treatment, seizures, registered drug users and reports of meth/amphetamine use occurring.

2.5. Expert consultation

Experts were consulted at every stage during this process. Lists of articles were emailed to check for completeness on several occasions during the review. Summary tables of country coverage of dependence, use and any evidence of use were emailed to meth/amphetamine experts and contacts at the UNDOC, asking them to identify additional studies to fill gaps. Updated summary tables were emailed on several occasions to the expert group, core GBD personnel and other personnel to confirm data coverage and accuracy.

In May 2009, a "viral email" was sent out to known email lists, experts and interest groups in the area of illicit drug or HIV research, advocacy, or policy, listing the countries for which we had no data on the prevalence of amphetamine use and/or dependence, with invitations for comment or submission of additional data for a final check of data coverage. This resulted in a number of additional recent reports (largely from low and middle income countries) that had recently been completed.

2.6. Data grading

Data were hierarchically graded according to study source/methodology (adapted from (20); see **Text Box 2**). Data were displayed for each country, grouped according to GBD study-defined regions (see **Appendix F** for countries/regions). We categorised estimates of use imputed by UNODC and reported in the 2008 World Drug Report with no details as "evidence of use" (graded "E" estimates), because they did not meet the primary inclusion criteria requiring details of methods used (or data sources and methodology used to impute estimates; see Supplementary Table).

Text	box 2: HIERARCHICAL GRADING SYSTEM
A1	Multiple and varied methods of indirect prevalence estimation
A2	Three sample capture-recapture, multivariate indicator or back projection method of prevalence estimation. Multiple but similar methods of indirect prevalence estimation.
A3	Two sample capture-recapture or multiplier method of prevalence estimation
B 1	General population survey
B2	School survey
B3	University sample
B 4	Convenience sample
C 1	Expert consensus (including Delphi)
C2	Rapid assessment or other documented 'expert' judgement
D1	Government registration of drug users
D2	Official government estimate with no methodology reported not including government registration of drug users
F	Estimate with methodology unknown

E Estimate with methodology unknown

2.7. Searches

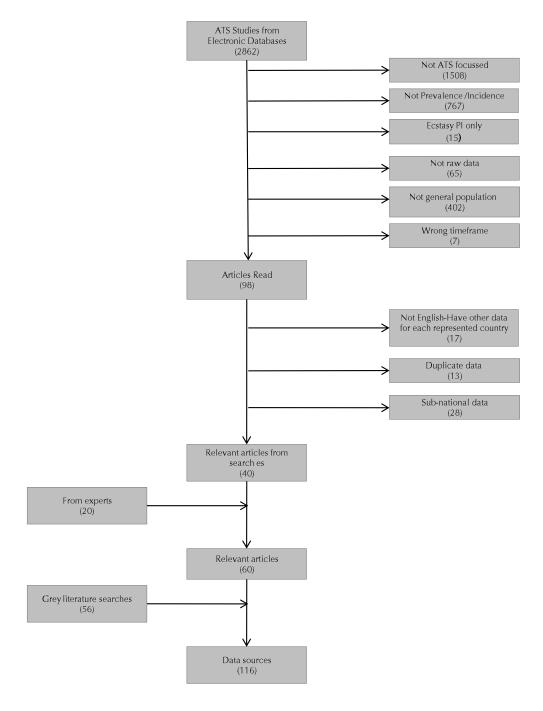
Figure 1 shows the overall search/cull process. Using these processes, 2862 studies were found for amphetamine use and dependence estimates. Of these; 1508 were not ATS focused, 767 were not prevalence/incidence estimates, 15 were ecstasy estimates only, 65 had no raw data, 402 were not from a general population, 7 were from the wrong time frame, 13 were duplicate data, 28 were sub-national (and national estimates were available for that country) and 17 were not in English. An additional 20 articles were identified by experts and 56 articles were found from grey

literature searches, leading to 116 data sources (including grey literature and articles with prevalence estimates). See (21) for a flowchart of the culling process.

In this paper, we report the most recent and highest graded prevalence estimate for the general population and school population: country-level meta-analysis of estimates over time were not conducted because of the possibility that differences reflected real population-level changes. In any case, such trends would only be available in a few (high income) countries.

This paper reports the proportion of coverage of the total world's population and also the world's population aged between 15-64 years were calculated for use and dependence estimates, general population and school surveys, age and sex specific estimates, and most recent year of estimates. Population numbers were provided by the United Nations population division of Urban/Rural data for the Global Burden of Disease project.

Figure 1: Flowchart of search strategy for prevalence of amphetamine use and dependence



Note. This flowchart show all articles identified for the GBD study. Included in this manuscript is the most recent indirect prevalence, general population and /or school survey for each country.

3. **RESULTS**

3.1. Evidence of meth/amphetamine use and dependence

There was some evidence of meth/amphetamine use or dependence in 181 countries/territories of the world, comprising 99% of the world's population aged 15-64 years (**Table 1**). In 104 of these countries, however, there were no numerical estimates available on the extent of such use. These countries included 39% of the world's population aged 15-64 years and included countries in Central Asia, East Asia, South Asia and Southeast Asian regions; in Oceania and most countries in Africa (**Table 3**).

Table 1: Summary characteristics of data on the prevalence of amphetamine use or dependence

-			
	Number of countries	World population covered	Population 15-64 years covered
Evidence of use and dependence			years concicu
Prevalence estimate of use or dependence	77	57.6%	59.8%
(incl. school survey)			
Evidence of use but no prevalence	104	41.0%	39.3%
estimates			
Total*	181	98.6%	99.1%
Coverage of the world's population by d	iffering study		
samples and estimate types			
Amphetamine dependence estimate	-	5.0.0/	5 (0/
National	5	5.2 %	5.4%
Sub-national	4	2.5 %	2.6%
Amphetamine use estimate – all studies	70	22 E0/	24.00/
National Sub national	70 7	33.5%	34.2%
Sub-national	7	24.0%	25.6%
Amphetamine use estimate – general	45	26.5%	27.0%
population National	45 3	20.5%	25.2%
Sub-national	5	25.070	23.270
Amphetamine use estimate - school			Percentage 15-19
children	64		years covered
National	10		23.5%
Sub-national	~		22.4%
Amphetamine dependence sex specific			
estimates	1	4.6%	4.7%
National	1	0.9%	0.9%
Sub-national			
Amphetamine use sex specific estimates			
National	55	23.4%	24.1%
Sub-national	6	25.5%	26.9%
Amphetamine dependence age group			
estimates (excl. school surveys)	1	4.6%	4.6%
National	0	0.0%	0.0%
Sub-national			
Amphetamine use age group estimates	21	15.00/	16 50/
(excl. school surveys)	31	15.9%	16.5%
National Sub national	1	0.2%	0.2%
Sub-national			
Most recent prevalence estimates 2005-2007	36	23.7%	24.4%
2005-2007 2000-2004	30 34	23.7% 12.4%	24.4% 12.2%
2000-2004 Before 2000	34 7	12.4% 22.4%	12.2% 24.3%
	1	LL.+/0	4 T. J/0

Note. Estimates may be past year, point or lifetime estimates. Sub-national studies are **only** counted in this table for countries when there is no available national data. The "Evidence of use and dependence" section is additive, but the "Coverage of the world's population" section is not – each country can be counted more than down the rows. *Totals found across 229 countries or territories.

In the 77 countries with some estimate of meth/amphetamine use or dependence many estimates were dated: seven studies were conducted in 1999 or earlier, 34 between 2000 and 2004, and only 36 in 2005 or later. Estimates of use were most likely to be based on surveys of school-aged children: 74 countries with 46% of the world's population aged 15-19 years of age had conducted national (n = 64) or sub-national (n = 10) school surveys. Forty eight countries had produced either a national (n = 45) or sub-national (n = 3) estimate of meth/amphetamine use in the general population. These countries comprised 52% of the world's population aged 15 to 64 years.

Age and sex specific estimates were rarely reported. Two studies of dependence reported sex specific estimates; one dependence study reported age group-specific estimates. Among the studies of meth/amphetamine use (general population or school surveys), 61 reported sex-specific estimates and 32, age group-specific estimates.

3.2. Meth/amphetamine dependence estimates

In the past twenty years, nine countries have estimated the prevalence of meth/amphetamine dependence (**Table 2**). These comprised five national and four sub-national estimates, in countries that accounted for 8% of the world's population aged 15-64 years.

Region/Co untry	Dependen ce: Point or past year Prevalence (95% CI)	Year of estim ate	Age (yrs)	Gr ade	Qu alit y sco re	Sou rce	Depend ence: "Lifetim e Prevalen ce"**	Year of esti mat e	Age (yrs)	Gr ad e	Qu alit y sco re	Sour ce
Australia	0.73+ (NR)	2002-	15-49	A1	10	(22)						
Czech Republic	0.28 (0.25,0.32)	2003 2005	15-64	A1	6	(23)						
Finland	0.42 (NR)	2002	15-54	A1	12	(23)						
Germany	/						0.5* (NR)	1995	14-25	B1	13	(24)
New							3.1*	2003	25	B1	12	(25)
Zealand							(NR)					
Slovakia	0.22 (0.16,0.40)	2006	15-64	A1	13	(23)						
Taiwan	1						0.4* (NR)	2002	M=1 5	B2	13	(26)
United Kingdom	0.38* (0.22,0.55)	2000	15-74	B1	12	(27)						
USA****	0.2 (NR)	2007	15-64	B1	13	(28)	0.6 (NR)	2001	18+	B1	10	(29)
								2002				

Table2. Identified studies estimating the prevalence of meth/amphetamine dependence

Note. All estimates are reported as percentages, NR=Not reported, + median prevalence estimate, * sub-national data available in the absence of national data, **We have used the term "Lifetime prevalence" of dependence or use to indicate cumulative probability for that parameter to aid in communication as this is the most commonly used nomenclature in the reviewed data.

***** Note that this estimate refers to "stimulant dependence", namely pharmaceutical amphetamines. Methamphetamine users who did not report the use of any pharmaceutical amphetamines would not be included in this assessment of dependence.

Age ranges for the estimates varied widely across studies: from only 15-49 years for the Australian estimate (22), to 12 years and older for the US estimate (30), making it difficult to compare estimates. Half of studies used an indirect approach to estimation rather than direct survey methods. Estimates of meth/amphetamine dependence prevalence were below 1% in all studies (past year range 0.1-0.73%) despite varying age ranges and methodologies (with the exception of an estimate of 3.1% lifetime dependence among 25 year olds in New Zealand (25)). The US estimate of "stimulant dependence", the lowest of the estimates located (0.2%), was a direct prevalence estimate derived from a household survey (30) (the nature of the NSDUH questionnaire structure means that this estimate would not include methamphetamine users who had not also used pharmaceutical stimulants).

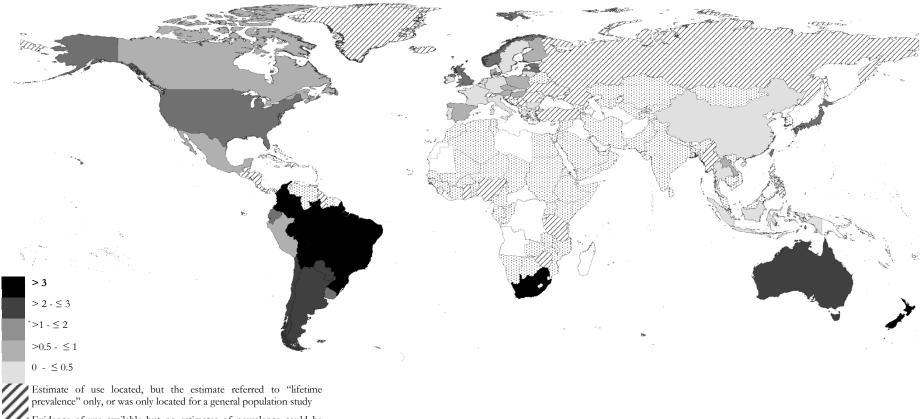
3.3. Meth/amphetamine use estimates

Estimates of use were grouped according to "lifetime" or past year use; past month use was less commonly assessed (European countries were a notable exception) and were only included when a past year prevalence estimate was not available for a given country. Figure 2 pictorially represents the available estimates of meth/amphetamine use in the past year among the general population. This is intended to give an impression of the levels documented across countries; important details about the age ranges (which differed across studies), study methodology, year of study and the quality score should be reviewed (Table 3).

As can be seen **(Table 3)**, there was notable geographic variation in the estimated levels of meth/amphetamine use. Among surveys of young people, the existing past-year use estimates were extremely low in the Caribbean, intermediate in Southeast Asia, Australia and Western Europe, and higher in Latin America and North America (by far the highest national-level estimate identified was in the United States (US) (7.8%; (31)).

A different picture emerged in surveys of the general population : although Latin American estimates were in the higher range of past year meth/amphetamine use, the US estimate (1.2%; (30)) was not high in comparison to other countries. Levels in Australia and New Zealand were higher (2.7% and 4% respectively). There were very few general population-level use estimates in Asia, a region where significant concern from government, UN and other agencies has been voiced over meth/amphetamine use and problems (see Table 3 and Figure 2).

Figure 2: Available estimates of the prevalence of meth/amphetamine use in the past year among the general population



Evidence of use available but no estimates of prevalence could be located

No evidence of use located

Note: Prevalence estimates are presented from nationally representative general population studies. If no national general population study was available for a given country a national school survey or sub-national study may be represented in the map. This is for illustrative purposes and details should be examined in Table 3. It is important to note that age ranges differ across studies included in this map, and the types of amphetamines included in assessment may have differed. Study details including age ranges may be found in Table 3. Unfortunately, due to limited reporting of such detail across countries, details on the types of amphetamines included in questions could not be comprehensively assessed.

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of use (if prevalence estimate available)	any no	Grade	Eviden ce of Use Source
					Pr	evalence of	meth/amphe	tamine depen	dence##				,			
Australia	0.73+ (NR)	2002-2003	15-49	A1	10	(22)										
Czech Republic	0.28 (0.25,0.32)	2005	15-64	A1	6	(23)										
Finland	0.42 (NR)	2002	15-54	A1	12	(23)										
Germany							0.5* (NR)	1995	14-25	B1	13	(24)				
New Zealand							3.1* (NR)	2003	25	B1	12	(25)				
Slovakia	0.22 (0.16,0.40)	2006	15-64	A1	13	(23)										
Taiwan							0.4* (NR)	2002	M=15	B2	13	(26)				
United Kingdom	0.38* (0.22,0.55)	2000	15-74	B1	12	(27)										
USA****	0.2 (NR)	2007	15-64	B1	13	(28)	0.6 (NR)	2001-2002	18+	B1	10	(29)				
						Prevale	nce of meth/a	mphetamine	use							
ASIA PACIFIC, HIGH INCOME																
Brunei													Imputed UNODC [^]	by	C2	(10)
Japan	1.4	2003	NR	B1	5	(32)	0.8*	1997	NR	B2	5	(33)				
Republic of Korea													Imputed UNODC [^]	by	C2	(10)
Singapore													Imputed UNODC [^]	by	C2	(10)
ASIA, CENTRAL																
Armenia													Imputed UNODC [^]	by	C2	(10)

Table 3: Identified studies of the prevalence of meth/amphetamine use and dependence

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)		Eviden ce of Use Source
Azerbaijan															
Georgia													Drug seizures	D2	(10)
Kazakhstan													Registered drug users	D1	(34)
Kyrgyzstan													Registered drug users	D1	(34)
Mongolia													Drug seizures	D2	(35)
Tajikistan													Registered drug users	D1	(34)
Turkmenistan															
Uzbekistan													Registered drug users	D1	(34)
ASIA, EAST															
China	0.15*	1998	NR	B1	9	(36)	0.1*	1996	16-18	B2	7	(37)			
Democratic People's Republic of Korea															
Hong Kong													Registered drug users	D1	(38)
Taiwan	1.24#* (0.79-1.97)	2002	15-64	A1	14	(39)	0.35*	2003	13-18	B2	11	(40)			
ASIA, SOUTH															
Afghanistan															
Bangladesh													Drug seizures	D2	(41)
Bhutan															
India													Imputed by UNODC [^]		(10)
Nepal													Imputed by UNODC [^]		(10)
Pakistan													Drug seizures	D2	(42)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of use (if prevalence estimate available)	any no	Grade	Eviden ce of Use Source
ASIA, SOUTHEAST																
Cambodia													Imputed UNODC [^]	by	C2	(10)
Indonesia	0.07	2005	10-60	B1	11	(43)	0.69	2005	10-60	B1	11	(43)				
Lao People's	0.64	2005-2006	15+	A1	5	(44)	5.2*	2008	12-24	B2	8	(45)				
Democratic Republic																
Malaysia													Imputed UNODC [^]	by	C2	(10)
Maldives													Drug seizures		D2	(42)
Mauritius	0	2004	15-18	B2	7	(46)	0	2004	15-18	B2	7	(46)				
Mayotte			15.04						15.01							
Myanmar	2.96*	2004	15-21	B2	12	(47)	5.97* 5.5	2004 2003	15-21 10-44	B2 B1	12 12	(47)				
Philippines Seychelles									10-44	D1 	12	(48)	Treatment		D1	(49)
Seyenenes													admissions		DI	(+)
Sri Lanka													Drug seizures		D2	(35)
Thailand	0.14	2007	12-65	B1	9	(50)	1.7	2007	12-65	B1	9	(50)	Ū			
	0.9*	2004-2005	15-19	B2	11	(51)	4.4*	2004-2005	15-19	B2	11	(51)				
Timor Leste																
Viet Nam													Imputed UNODC [^]	by	C2	(10)
AUSTRALASI A																
Australia	2.7	2007	15-64	B1	12	(10, 52, 53)	6.3	2007	14+	B1	12	(52, 53)				
	0.6	2007	12-17	B2	12	(10, 52, 53)	1	2007	12-17	B2	12	(10, 52, 53)				
New Zealand	4	2003	13-65	B1	10	(54)	9	2006	13-65	B1	13	(54)				
CARIBBEAN																
Anguilla																
Antigua and Barbuda													Evidence of us	e	D2	(55)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)	Grade	Eviden ce of Use Source
Aruba															
Bahamas													Imputed by UNODC [^]	C2	(10)
Barbados	0.2	2005	NR	B1	11	(56)	0.5 3.1	2005 2001	NR 12+	B1 B2	11 11	(57) (56)			
Belize							4.7	2001	12+	B2	11	(57)			
Bermuda															
British Virgin															
Islands															
Cayman Islands													Drug seizures	D2	(35)
Cuba													Treatment	D1	(58)
													admissions		
Dominica													Evidence of use	D2	(59)
Dominican	5.4	2003	12-17	B2	7	(60)	0.01	1999	12-31	B2	11	(61)			
Republic							(0.02, 0.03)								
French Guiana															
Grenada													Evidence of use within a specific population		(62)
Guadaloupe															
Guyana	0.8	2002	NR	B2	9	(63)	1.5	2002	11-23	B2	9	(63)	D 11 (DA	(50)
Haiti													Evidence of use	D2	(59)
Jamaica													Treatment admissions	D1	(49)
Martinique															
Montserrat															
Netherlands													Drug seizures	D2	(64)
Antilles													D 11 C		(50)
Saint Kitts and Nevis													Evidence of use	D2	(59)
St. Lucia													Evidence of use	D2	(59)
St. Vincent													Evidence of use	D2	(59)
Suriname													Evidence of use	D2	(59)
Trinidad and													Imputed by	C2	(10)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of use (if prevalence estimate available)	any no	Grade	Eviden ce of Use Source
Tobago Turks and Caicos Islands													UNODC [^] Imputed UNODC [^]	by	C2	(10)
EUROPE, CENTRAL																
Albania													Imputed UNODC [^]	by	C2	(10)
Bosnia and													Drug seizures		D2	(64)
Herzegovina Bulgaria	0.4	2005	18-60	B1	13	(65)	1.4	2005	18-60	B1	13	(65)				
Croatia	1.0	2003	15-16	B2	13	(66)	2 2	2003 2003	15-16 15-16	B2 B2	13 13	(66) (66)				
Czech Republic	0.7	2005	18-64	B1	10	(65)	2.5	2003	15-64	B1	10	(65)				
1	2.0	2003	15-16	B2	13	(66)	2	2006	15-16	B2	8	(67)				
Hungary	1.0	2003	18-54	B1	10	(65)	2.5	2003	18-54	B1	10	(65)				
	2.0	2003	15-16	B2	13	(66)	3	2003	15-16	B2	8	(66)				
Poland	0.7	2006	15-64	B1	10	(65)	1.9	2002	16-64	B1	9+	(65)				
р [.]	2.1	2005	15-16	B2	7	(68)	4	2005	15-16	B2	8	(67)				
Romania							0.2 0	2004 2003	15-64 15-16	B1 B2	10 13	(65) (66)				
Serbia and							1.7	2005	16	B2	9	(69)				
Montenegro												. ,				
Slovakia	0.3	2006	15-64	B1	10	(65)	1.2	2006	15-64	B1	10	(65)				
	1.0	2003	15-16	B2	13	(66)	1	2006	15-16	B2	8	(67)				
Slovenia	1.0	2003	15-16	B2	13	(66)	1	2003	15-16	B2	13	(66)				
The Former													Drug seizures		D2	(64)
Yugoslav																
Republic of																
Macedonia																
EUROPE, EASTERN																
Belarus													Imputed UNODC [^]	by	C2	(10)
Estonia	1.3	2003	NR	B1	10	(65)	1	1998	18-64	B1	9+	(65)				

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of a use (if prevalence estimate available)	ny no	Grade	Eviden ce of Use Source
	3.0	2003	15-16	B2	13	(67)	7	2003	15-16	B2	13	(66)	uvullubic)			
Latvia	1.1	2003	15-64	B1	10	(65)	2.6	2003	15-64	B1	10	(65)				
	2.0	2003	15-16	B2	13	(66)	3	2003	15-16	B2	13	(66)				
Lithuania	0.3	2004	15-64	B1	10	(65)	1.1	2004	15-64	B1	10	(65)				
	3	2003	15-16	B2	13	(66)	5	2003	15-16	B2	13	(66)				
Republic of Moldova													Imputed UNODC [^]	by	C2	(10)
Russian	0	2003	15-16	B2	13	(66)	1	2007	15-16	B2	13	(70)				
Federation																
Ukraine	1	2003	15-16	B2	13	(66)	1	2003	15-16	B2	13	(66)				
EUROPE, WESTERN												, í				
Andorra													Drug seizures		D2	(64)
Austria	0.8	2004	15-64	B1	10	(65)	2.4	2004	15-64	B1	10	(65)				
	4.0	2003	15-16	B2	8	(66)	4	2003	15-16	B2	8	(66)				
Belgium	0.3*	1994	18-64	B1	9	(65)	2.1	2001	15-64	B1	9+	(65)				
	1.0	2003	15-16	B2	13	(66)	2	2003	15-16	B2	12	(66)				
Channel Islands																
Cyprus	0.3	2006	15-64	B1	10	(65)	0.8	2006	15-64	B1	10	(65)				
D 1	0.0	2003	15-16	B2	13	(66)	0	2003	15-16	B2	13	(66)				
Denmark	0.7	2005	15-64	B1	10	(65)	6.9	2005	15-64	B1	10	(65)				
	3.0	2003	15-16	B2	13	(66)	4	2003	15-16	B2	13	(66)				
Faeroe Islands	1 0.6	2003 2006	15-16 15-64	B2 B1	13	(66)	1 2.2	2003 2006	15-16 15-64	B2 B1	13	(66)				
Finland	0.0	2008	15-64	B1 B2	10 13	(65)	2.2	2006	15-64	B1 B2	10 13	(65)				
France	0.0	2003	15-64	B2 B1	13	(66) (65)	1.4; 2	2005;	15-64;	B2 B1; B2	10; 11+	(66) (65); (71)				
France	0.1	2005	15-04	DI	10	(05)	1.4; 2	2003; 1999	15-04;	D1; D2	10, 11+	(05); (71)				
Germany	0.5	2006	18-64	B1	10	(65)	2.5	2006	13-10	B1	10	(65)				
Ocilialiy	3.0	2000	15-16	B2	10	(66)	5	2000	15-16	B2	10	(66)				
Gibraltar						(00)							Drug seizures		D2	(35)
Greece	0	2004	15-64	B1	10	(65)	0.1	2004	15-64	B1	10	(65)	Drug seizures		102	(55)
Siece	0	2003	15-16	B2	13	(66)	0	2003	15-16	B2	13	(66)				
Greenland	0	2003	15-16	B2	13	(66)	0	2003	15-16	B2	13	(66)				
Holy See																

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of use (if prevalence estimate available)	any no	Grade	Eviden ce of Use Source
Iceland	3	2003	15-16	B2	13	(66)	5	2003	15-16	B2	13	(66)	,			
Ireland	0.4	2006-2007	15-64	B1	10	(65, 72)	3.5	2006-2007	15-64	B1	12	(65, 72)				
	0	2003	15-16	B2	13	(66)	1	2003	15-16	B2	13	(66)				
Isle of Man	1	2003	15-16	B2	13	(66)	3	2003	15-16	B2	13	(66)				
Israel													Imputed UNODC [^]	by	C2	(10)
Italy	0.4	2005	15-64	B1	10	(65)	2.4	2005	15-64	B1	10	(65)				
	2	2003	15-16	B2	13	(66)	1	2005	15-16	B2	8	(67)				
Liechtenstein													Imputed UNODC [^]	by	C2	(10)
Luxembourg							3	2002	15-16	B2	8	(67)				
Malta	0	2001	18-64	B1	10	(65)	0.4	2001	18-64	B1	10	(65)				
	1	2003	15-16	B2	13	(66)	1	2003	15-16	B2	13	(66)				
Monaco													Drug seizures		D2	(35)
Netherlands	0.3	2005	15-64	B1	10	(65)	2.1	2005	15-64	B1	10	(65)	U			
	1	2003	15-16	B2	13	(66)	1	2003	15-16	B2	13	(66)				
Norway	1.1	2004	15-64	B1	10	(65)	3.6	2004	15-64	B1	10	(65)				
	1	2003	15-16	B2	13	(66)	2	2003	15-16	B2	13	(66)				
Portugal	0.2	2007	15-64	B1	10	(65)	0.9	2007	15-64	B1	10	(65)				
	2	2003	15-16	B2	9	(66)	3	2003	15-16	B2	9	(66)				
Saint Pierre et																
Miquelon																
San Marino													Drug seizures		D2	(64)
Spain	0.7	2005-2006	15-64	B1	10	(65)	3.4	2005-2006	15-64	B1	10	(65)				
	3	2006	15-16	B2	8	(71)	3	2006	15-16	B2	8	(67)				
Sweden	0.2	2000	16-64	B1	9+	(65)	1.9	2000	16-64	B1	9+	(65)				
	1	2003	15-16	B2	13	(66)	1	2005	15-16	B2	8	(67)				
Switzerland	2	2003	15-16	B2	13	(66)	3	2003	15-16	B2	13	(66)				
United Kingdom	1.5	2004	16+	B1	10	(65)	12.3	2004	16+	B1	10; 13	(65)				
	2	2003	15-16	B2	13	(66)	3	2003	15-16	B2		(66)				
LATIN AMERICA, ANDEAN																
Bolivia	3.07	2006-2007	15-64	B1		(73)	6.69	2006-2007	15-64	B1		(73)				

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of use (if prevalence estimate available)	any no	Grade	Eviden ce of Use Source
	3.63	2006-2007	15-16	B2		(73)	7.08	2006-2007	15-16	B2		(73)	/			
Ecuador	1.32	2006-2007	15-64	B1		(73)	2.73	2006-2007	15-64	B1		(73)				
	1.58	2006-2007	15-16	B2		(73)	3.03	2006-2007	15-16	B2		(73)				
Peru	0.65	2006-2007	15-64	B1		(73)	1.11	2006-2007	15-64	B1		(73)				
	0.59	2006-2007	15-16	B2		(73)	1.2	2006-2007	15-16	B2		(73)				
LATIN AMERICA, CENTRAL																
Colombia	3.48	2006-2007	15-64	B1		(73)	5.78	2006-2007	15-64	B1		(73)				
	3.69	2006-2007	15-16	B2		(73)	6.36	2006-2007	15-16	B2		(73)				
Costa Rica							0.02	1999	12-20	B2	11	(61)				
El Salvador	3.4	2003	12-17	B2	9	(60)	0.02	2000	13-20	B2	11	(61)				
Guatemala	5.6	2003	12-17	B2	9	(60)	0.01	1999	11-23	B2	11	(61)				
Honduras							0.03	1999	11-20	B2	11	(61)				
Mexico	1*	1993-1994	NR	B1	11	(74)										
	1.4	1991-1993	NR	B2	11	(74)										
Nicaragua	4.0	2003	12-17	B2	9	(60)	0.04	1999	10-23	B2	9	(61)				
Panama	2.8	2003	12-17	B2	7	(60)	2.4	1996	11-20	B2	10	(75)				
Venezuela													Imputed UNODC [^]	by	C2	(10)
LATIN AMERICA, SOUTHERN																
Argentina	2.79	2006-2007	15-64	B1		(73)	4.07	2006-2007	15-64	B1		(73)				
	3	2006-2007	15-16	B2		(73)	4.54	2006-2007	15-16	B2		(73)				
Chile	2.15	2006-2007	15-64	B1		(73)	3.95	2006-2007	15-64	B1		(73)				
	2.57	2006-2007	15-16	B2		(73)	3.2*	1991	12-20	B2	10	(76)				
Falkland Islands (Malvinas)																
Uruguay	1.61	2006-2007	15-64	B1		(73)	2.87	2006-2007	15-64	B1		(73)				
	2.19	2006-2007	15-16	B2		(73)	3.53	2006-2007	15-16	B2		(73)				
LATIN AMERICA, TROPICAL																

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of an use (if n prevalence estimate available)		de Eviden ce of Use Source
Brazil	3.38	2006-2007	15-64	B1		(73)	3.93	2006-2007	15-64	B1		(73)	available)		
D	4.33 2.18	2006-2007 2006-2007	15-16 15-64	B2 B1		(73)	4.86 3.53	2006-2007 2006-2007	15-16 15-64	B2 B1		(73)			
Paraguay	2.18	2006-2007 2006-2007	15-64	B1 B2		(73) (73)	5.55 4.07	2006-2007 2006-2007	15-64	B1 B2		(73) (73)			
NORTH AFRICA / MIDDLE EAST								2000 2007							
Algeria													Drug seizures	D	
Bahrain													Imputed b UNODC [^]		
Egypt													Imputed b UNODC [^]	y C	
Iran (Islamic Republic of)													Drug seizures	D	2 (35)
Iraq															
Jordan													Imputed b UNODC [^]	y C	
Kuwait													Evidence of use	D	2 (77)
Lebanon	0.5*	1999	NR	B2	11	(78)	1.2*	1999	NR	B2	7	(78)			
Libyan Arab Jamahiriya															
Morocco													Imputed b UNODC [^]		
Occupied Palestinian Territory													Drug seizures	D	2 (79)
Oman													Imputed b UNODC [^]	y C	2 (10)
Qatar													Treatment admissions	D	· · ·
Saudi Arabia													Imputed b UNODC [^]	y C	. ,
Syrian Arab													Drug seizures	D	2 (35)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)	Grade	Eviden ce of Use Source
Republic															
Tunisia													Drug seizures	D2	(64)
Turkey	1	2003	15-16	B2	13	(66)	2	2003	15-16	B2	13	(66)	D '	50	(0.0)
United Arab Emirates													Drug seizures	D2	(80)
Western Sahara															
Yemen													Drug seizures	D2	(35)
NORTH AMERICA, HIGH INCOME															
Canada	0.8	2004	15+	B1	11	(81, 82)	6.4	2004	15+	B1	11	(81, 82)			
	2	2005	12-18	B2	13	(83)	2	2002	12-14	B2	9	(82)			
USA	1.2	2007	12+	B1	13	(28)	8.7	2007	12+	B1	13	(28)			
	7.8	2005	15-16	B2	9	(31)	15.7	2006	15-16	B2	14	(84)			
OCEANIA															
American Samoa													Drug seizures	D2	(85)
Cook Islands															
Fiji													Drug seizures	D2	(86)
French Polynesia															
Guam													Treatment admissions	D1	(86)
Kiribati															
Marshall Islands															
Micronesia													Reports of use	Е	(87)
(Federated States															
of)															
Nauru															
New Caledonia															
Niue															
Northern													Drug seizures	D2	(86)
Mariana Islands															
Palau													Drug seizures	D2	(86)
Papua New															

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)	Grade	Eviden ce of Use Source
Guinea													available)		
Pitcairn															
Samoa															
Solomon Islands															
Tokelau															
Tonga															
Tuvalu															
Vanuatu															
Wallis and															
Futuna Islands SUB-			_	_	_	_								_	
SOB- SAHARAN															
AFRICA,															
CENTRAL															
Angola															
Central African															
Republic															
Congo													Drug seizures	D2	(35)
Democratic															
Republic of the															
Congo															
Equatorial															
Guinea															
Gabon													Drug seizures	D2	(35)
SUB-															
SAHARAN															
AFRICA,															
EAST															
Burundi															
Comoros															
Djibouti													Drug seizures	D2	(35)
Eritrea													Drug seizures	D2	(35)
Ethiopia													Imputed by UNODC [^]	C2	(10)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)	Grade	Eviden ce of Use Source
Kenya													Number of users	C3	(88)
Madagascar															
Malawi													Khat widely used	Е	(89)
Mozambique													Reports of use	Е	(90)
Rwanda													Khat widely used	Е	(89)
Somalia													Khat used in militia	Е	(91)
Sudan													Drug seizures	D2	(35)
Uganda													Khat widely used	Е	(92)
United Republic							16.73*	1990	13-26	B2	12	(93)			
of Tanzania															
Zambia													Imputed by UNODC [^]	C2	(10)
SUB- SAHARAN AFRICA, SOUTHERN															
Botswana													Drug seizures	D2	(64)
Lesotho													Drug seizures and drug-related arrests	D2	(94)
Namibia													Imputed by UNODC [^]	C2	(10)
South Africa	8.62*	2004	NR	B1	7	(95)	0.2	2005	12+	B1	13	(96)			
							5.15*	2005	NR	B2	7	(97)			
Swaziland													Drug seizures	D2	(35)
Zimbabwe							8.2	1990	12-21	B2	11	(98)			
SUB- SAHARAN AFRICA, WEST															
Benin													Drug seizures	D2	(64)
Burkina Faso													Numbers of users	D1	(99)
Cameroon													Number of users	D1	(100)
Cape Verde							_		—	—	—	—	Number of users	D1	(101)

Region/Countr y	Past year Prevalence (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	"Lifetime Prevalence "** (95% CI)	Year of estimate	Age (yrs)	Grade	Quality score	Source(s)	Evidence of any use (if no prevalence estimate available)	Grade	Eviden ce of Use Source
Chad													Imputed by UNODC [^]	C2	(10)
Cote d'Ivoire													Number of users	D1	(102)
Gambia													Drug seizures	D2	(64)
Ghana							0.2	2003	15-24	B2	10	(103)	-		
Guinea													Drug seizures	D2	(35)
Guinea-Bissau															
Liberia															
Mali													Drug seizures	D2	(35)
Mauritania															
Niger													Drug seizures	D2	(64)
Nigeria	16.6*	1997	15-21	B2	10	(104)	1.4*	2006	NR	B1	8	(105)	0		
0							1	2003	15-16	B2	13	(66)			
Saint Helena															
Sao Tome and															
Principe															
Senegal													Treatment admissions	D1	(49)
Sierra Leone							_	_	—	—	_	—	Number of users	D1	(64)
Togo													Drug seizures	D2	(64)

Note. All estimates are reported as percentages. NR=Not reported, ^ no further information available, * sub-national data available in the absence of national data **We have used the term "Lifetime prevalence" of dependence or use to indicate cumulative probability for that parameter to aid in communication as this is the most commonly used nomenclature in the reviewed data. "Amphetamine user group. # Estimate population is males only. + median prevalence estimate, ***** Note that this estimate refers to "stimulant dependence", namely pharmaceutical amphetamines. Methamphetamine users who did not report the use of any pharmaceutical amphetamines would not be included in this assessment of dependence. ##Past year dependence estimates are point or past year prevalence

4. **DISCUSSION**

Meth/amphetamine use and dependence are increasingly the focus of government policy, community debate and research. The current review, however, found that the global picture of the extent of use and dependence is patchy, and data are variable in quality. Systematic searches identified some evidence that meth/amphetamine was used in 80% of countries that included 99% of the world's population aged 15-64 years. Credible prevalence estimates were only available for meth/amphetamine use/dependence in around 30% of countries, comprising 60% of the world's population aged 15-64 years. There was therefore evidence of meth/amphetamine use or trafficking in countries/territories comprising an additional 39% of the global population aged 15-64 years, without any estimate at all of the number of young people or adults using this drug class.

Arguably the most important indicator – the extent of dependent use – has only rarely been measured. Only nine countries have estimated the prevalence of meth/amphetamine dependence in the past twenty years. This amounted to 5% of the 181 countries where meth/amphetamine use (and presumably dependence) occurs. Their populations account for 8% of the world's population aged 15-64 years. Half of these estimates were sub-national rather than national. All past year dependence estimates were well below 1%, but differences in methodologies and age ranges and even types of amphetamines included in definitions limit our capacity to make direct comparisons of the levels across countries.

Surveys of school students were the most common method of assessing meth/amphetamine use in a country (74 countries). This reflects the ease of access, simplicity, limited cost and time entailed in undertaking such surveys. But such surveys fail to capture patterns of use in the young adult population or among young people who have already left school, a group repeatedly documented to have higher levels of illicit drug use than those in school. This can be a significant proportion of young people in countries in which there are low rates of high school retention.

4.1. Limitations due to measurement differences across existing studies

A notable limitation of many general population surveys is a lack of assessment of specific types of drug dependence. In some cases there was only assessment of "stimulant use disorders" (for example the Australian National Survey of Mental Health and Well-Being, conducted in 1997 (106)), which included both cocaine and amphetamines. There are similar problems with the World Mental Health Surveys (WMHS), which have surveyed representative samples of the general adult population in over twenty countries (Australia, Belgium, Brazil, Bulgaria, Colombia, Costa Rica, France, Germany, India, Iraq, Israel, Italy, Japan, Lebanon, Mexico, Netherlands, New Zealand, Nigeria, Northern Ireland, Peru, Portugal, People's Republic of China, Romania, South Africa, Spain, Turkey, Ukraine and the USA). Unfortunately, the assessment of drug dependence in these surveys only refers to *any* illicit drug dependence; there is no specific assessment of either meth/amphetamine use or dependence.

There was a lack of consistency in definitions of "amphetamines". Some countries refer to methamphetamine only, while others refer to "amphetamines" or "stimulants". Some countries may have included pharmaceutical amphetamines or ecstasy, which may have been the case in the Republic of Tanzania (93) and some Latin American countries. Poor reporting of questions

used creates uncertainty about the prevalence estimates in other countries. There is clearly a need for some consensus definitions of this drug group to be used by all countries conducting surveys if comparability is to be increased.

Other limitations preclude meaningful comparisons across studies and countries. These include variations in: population survey methodology (varying from census to random digit dialling); response rates; reported age ranges; and use of national vs. sub-national samples where there are probable geographic variations in meth/amphetamine use or dependence; and lack on consistent time periods for measurement ("lifetime" vs. past year vs. past month).

Future research needs to increase the coverage of estimates for different populations and ensure that these estimates are valid. The two regions that have put the greatest effort into cross-nationally comparable studies have been Europe, under the guidance of the European Monitoring Centre on Drugs and Drug Addiction (107-110), and the Americas (e.g. (111)). The absence of high quality prevalence data was especially evident in Asian countries that are believed to have the largest problems related to meth/amphetamine use. There is a clear imperative for prevalence estimates in these countries.

There is a need to look critically at estimates derived from surveys of drug use relying on selfreports. These estimates will only be accurate if representative samples are obtained, if people honestly disclose their drug use, and if drug users are spread evenly around the country. These conditions are often not met. Marginalised groups who have higher levels of drug use, are typically excluded (e.g. those who are homeless, imprisoned or in treatment facilities). People may also feel uncomfortable disclosing illegal behaviours (in ways that probably vary across countries and cultures), particularly in societies where participants fear adverse consequences for admitting to an illegal behaviour. This will particularly be the case when anonymity and confidentiality are not assured. It may also be affected by the type of interviewer, particularly if they are a law enforcement or government official, (an approach still used in surveys conducted some countries). The use of computer-assisted interview techniques might be one strategy to reduce underreporting of drug use by participants.

Finally, drug use is often geographically concentrated, and random sample surveys may not be able to take this into account. There is a need to develop better methods of estimating meth/amphetamine dependence in countries that are unable to conduct national community surveys. Indirect methods have more often been used to estimates the prevalence of opioid dependence or injecting drug use; they should also be considered in future studies of amphetamine dependence.

4.2. Limitations of this review

Our review was subject to limitations (see a longer discussion of these in (112)). One was the lag between when research is conducted and published in peer-reviewed journals. We addressed this by using multiple methods of sourcing and locating "grey" literature and by surveying experts in the field about unpublished studies. The latter was a very important source for this review, with a majority of the estimates sourced from the grey literature. Grey literature reports are, however, difficult to access and many not available in English. Concerted efforts are needed to make this source of information more readily available electronically (see (13)). English language documents were primarily reviewed but the abstracts of many non-English language peerreviewed articles were also reviewed when available in English; translation was undertaken where papers appeared relevant. Furthermore, estimates were also reviewed by UN staff with access to non-English language material.

4.3. Conclusions

There is an imperative to improve data on the global extent of meth/amphetamine use and dependence. The quality and amount of data on this issue – particularly in Asia where use is thought to be increasing – are exceedingly poor. The gaps were even larger for dependence, and documented across countries of all income categories, including those with the resources and infrastructure to carry out national prevalence estimation studies. It would seem that despite increasing concern among policymakers, researchers and the community about the growing problem related to amphetamine use and dependence, little systematic effort has been devoted to understanding the extent and social distribution of this "problem". This lack of data must be addressed if policy and treatment responses are to be appropriately targeted and scaled to address the harms caused by this type of illicit drug use.

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APPENDIX A: SEARCH STRINGS FOR PEER REVIEWED SEARCHES

Database	Search group	Search terms
Medline*	ATS	ATS OR amphetamine type stimulant\$ OR amphetamine\$ OR methamphetamine OR deoxyephedrine OR desoxyephedrine OR Desoxyn OR madrine OR metamfetamine OR methamphetamine hydrochloride OR methylamphetamine OR n-methylamphetamine OR d- amphetamine OR dextroamphetamine sulphate OR dexamphetamine OR dexedrine OR dextro-amphetamine sulphate OR dextroamphetamine sulphate OR d- amphetamine sulphate OR d- amphetamine sulphate OR d-
		exp amphetamines/ or exp amphetamine/ or exp dextroamphetamine/ or exp p-chloroamphetamine/ or exp 2,5-dimethoxy-4-methylamphetamine/ or exp p- hydroxyamphetamine/ or exp iofetamine/ or exp methamphetamine/ or exp benzphetamine/ or exp phentermine/ or exp chlorphentermine/ or exp mephentermine/ or exp amphetamine-related disorders/
	Gold standard Epidemiology	"prevalence" OR "inciden\$" OR "epidemiolog\$" OR "history" or "patterns" OR "survey\$" OR "data collection\$" OR "screening" OR "cohort" OR "population study" OR "population sample" OR "surveillance" OR "community sample" OR "statistics" OR "duration" OR "severity" OR "chronic" OR "long-term" OR "prolonged"
		exp Epidemiology/ or Exp prevalence/ or exp Incidence/ or exp sex distribution/ or exp age distribution/ or exp epidemiologic methods/ or exp ethnology/ or exp Statistics/ or exp data collection/ or exp health surveys/ or exp health care surveys/ or exp interviews/ or exp narration/ or exp questionnaires/ or exp records/ or exp registries/ or exp disease notification/ or exp epidemiologic studies/ or exp cohort studies/ or exp longitudinal studies/ or exp follow-up studies/ or exp prospective studies/ or exp focus groups/
	Basic epidemiology	(inciden\$ or prevalen\$ or epidemiolog\$)
		Exp Epidemiology/ or exp prevalence/ or exp Incidence/
	Cohort	"cohort" OR "longitudinal" OR "incidence" OR "prospective" OR "follow-up"
		exp cohort studies/ or exp longitudinal studies/ or exp follow-up studies/ or exp prospective studies/
	Drug Use	drug abuse\$ OR drug use\$ OR drug misuse\$ OR drug dependenc\$ OR substance abuse\$ OR substance use\$ OR substance misuse\$ OR substance dependenc\$ OR addict\$

Database	Search group	Search terms		
		Exp Substance-related disorders/		
EMBASE#	ATS	ATS or amphetamine type stimulant\$ or amphetamine\$ or methamphetamine or deoxyephedrine or desoxyephedrine or Desoxyn or madrine or metamfetamine or methamphetamine hydrochloride or methylamphetamine or n-methylamphetamine or d-amphetamine or dextroamphetamine sulphate or dexamphetamine or dexedrine or dextro-amphetamine sulphate or dextroamphetamine sulphate or d-amphetamine sulphate or stimulant\$		
		expCHLORPHENTERMINE/orexpCHLORAMPHETAMINE/orexpBENZPHETAMINE/ or expPHENTERMINE/ or expMEPHENTERMINE/orexpHYDROXYAMPHETAMINE/orexpIOFETAMINE I 123/ or expIOFETAMINE I 125/ orexpDEXAMPHETAMINE/orMETHAMPHETAMINE/orAMPHETAMINEDERIVATIVE/ or expAMPHETAMINE/or		
	Gold standard Epidemiology	"prevalence" OR "incidence" OR "epidemiolog\$" OR "data collection" Or "Survey" OR "surveillance" OR "screening" OR "population study" OR "population sample" OR "population survey" OR "population surveillance" OR "community sample" OR "RAR" OR "rapid assessment" OR "situation\$ assessment" OR "statistics"		
		exp PREVALENCE/ or exp INCIDENCE/ or exp EPIDEMIOLOGY/ or exp Age Distribution/ or exp Sex Difference/ or exp biostatistics/ or exp health statistics/ or exp epidemiological data/ or exp geographic distribution/ or exp field study/ or exp observational study/ or exp panel study/ or exp pilot study/ or exp prevention study/ or exp trend study/ or exp case finding/ or exp exploratory research/ or exp multimethod study/ or exp naturalistic inquiry/ or exp qualitative research/ or exp quantitative study/ or exp sample size/ or exp secondary analysis/ or exp technique/ or exp triangulation/ or exp "medical record review"/ or exp semi structured interview/ or exp structured interview/ or exp questionnaire/ or exp open ended questionnaire/ or exp structured questionnaire/ or exp model/		
	Basic Epidemiology	(inciden\$ or prevalen\$ or epidemiolog\$) Exp Epidemiology/ or exp prevalence/ or exp Incidence/		
	Cohort	"cohort" OR "longitudinal" OR "incidence" OR		

Database	Search group	Search terms
		"prospective" OR "follow-up"
		exp COHORT ANALYSIS/ or exp LONGITUDINAL STUDY/ or exp PROSPECTIVE STUDY/ or exp Follow Up/
	Drug Use	Drug abuse OR drug use\$ OR drug misuse OR drug dependenc\$ OR substance abuse OR substance use\$ OR substance misuse OR substance dependenc\$ OR addict\$
		exp substance abuse/ or exp drug abuse/ or exp analgesic agent abuse/ or exp drug abuse pattern/ or exp drug misuse/ or exp drug traffic/ or exp multiple drug abuse/ or exp addiction/ or exp drug dependence/ or narcotic dependence/
PsychINFO^	ATS	ATS or amphetamine type stimulant\$ or amphetamine\$ or methamphetamine or deoxyephedrine or desoxyephedrine or Desoxyn or madrine or metamfetamine or methamphetamine hydrochloride or methylamphetamine or n-methylamphetamine or d-amphetamine or dextroamphetamine sulphate or dexamphetamine or dexedrine or dextro-amphetamine sulphate or dextroamphetamine sulphate or d-amphetamine sulphate or stimulant\$
		exp DEXAMPHETAMINE/ or exp METHAMPHETAMINE/ or AMPHETAMINE DERIVATIVE/ or exp AMPHETAMINE/
	Gold standard epidemiology	"prevalence" OR "incidence" OR "epidemiolog\$" OR "data collection" Or "Survey" OR "surveillance" OR "screening" OR "population study" OR "population sample" OR "population survey" OR "population surveillance" OR "community sample" OR "RAR" OR "rapid assessment" OR "situation\$ assessment" OR "statistics"
		Exp epidemiology/ or exp STATISTICS/ or exp "POPULATION (STATISTICS)"/ or exp disease course/ or exp statistical analysis/
	Basic	Prevalen\$ or inciden\$ or epidemiolog\$
	epidemiology	Exp epidemiology/
	Cohort	"cohort" OR "longitudinal" OR "incidence" OR "prospective" OR "follow-up"
		Exp age differences/ or exp cohort analysis/ or exp human sex differences
	Drug Use	Drug abuse OR drug use\$ OR drug misuse OR drug dependenc\$ OR substance abuse OR substance use\$ OR substance misuse OR substance dependenc\$ OR addict\$

Database	Search group	Search terms
		Exp drug abuse/ or exp drug addiction/ or exp addiction/ or exp drug usage

* 'key-words' in lowercase, 'MeSH' terms in **bold** # 'key-words' in lowercase, 'EMTREE' terms in bold
 ^ 'key words' in lowercase, explode terms in bold

	Search terms		Database			
			Medline	EMBASE	PsycINFO	
1.	ATS	+ Gold epidemiology + drug	3149	3060	1316	
		use				
2.	ATS	+ Gold epidemiology +	644	513	267	
		cohort + drug use				
3.	ATS	+ Basic epidemiology + drug	906	1900	476	
		use				
4.	ATS	+ Basic epidemiology +	324	296	111	
		cohort + drug use				

APPENDIX B: SEARCH STRING COMBINATIONS

APPENDIX C: ILLICIT DRUGS QUALITY INDEX

1.	Case ascert	ainment			
	2	• Nationwide survey/register/database (not for a specific			
		population)			
		Multiple institutions/centres			
	1	• Regional			
		• Case/death registers			
		• One treatment institution/hospital etc.			
	0	• Not specified			
2.	Measureme	ent instrument			
	3	• Interview/self-reported drug use (comment about reporting			
		type, eg. self-report or standardised interview)			
		In treatment for drug dependence			
	2	 Systematic case note/database/reports review 			
		Blood and/or urine toxicology screen			
	1	Chart diagnosis			
	0	• Not specified			
3.	Diagnostic	criteria			
	1	• Any diagnostic system reported for drug dependence or abuse			
(not use) e.g., DSM, ICD, RDC (comment, eg. DSM)					
		• Dependence inferred from type of sample population			
(comment, e.g. treatment centre)					
	0	• Drug use			
		Own system			
		Symptoms described			
		• No system			
		Not specified			
4.	Estimate				
	1	• Yes (comment on what type of estimate, eg. relative risk, SMR,			
		prevalence, incidence)			
-	0	• No			
5.	Numerator	and denominator presented?			
	1	• Vac			
		• Yes			
(0 Numerator	• No			
6.	Numerator areas?	and denominator based on identical epochs and identical catchme			
	a10a5;				
	1	• Yes			
	0				
	v	• No			

7.	Completeness studies	of follow-up in cohort studies and response for cross-section							
	 High response rate/inclusion of defined sample population (>80%) 								
	1 •	Moderate response rate (60% - 79%)							
	•	Exclusions made							
	0 •	Poor response rate (<60%)							
8.	Representative	e of the catchment area?							
	2 •	Well represented							
	National registers								
	•	Multiple institutions across states							
	1 •	Small area							
	•	Not representative of nation							
	•	One treatment centre							
	•	Registers of specific populations, eg. pilots							
	0 •	Convenient sampling							
	•	Other (comment)							
9.	Age/sex specin	fic values presented?							

2	٠	Yes
1	٠	Some (e.g. sex and 2 broad age ranges only)
0	٠	No

10. Quality of methods of reporting

Text	٠	E.g. translation of tools, interviewer's quality, quality control
		monitoring, limitations of data, high quality methods used
		etc

11. Duration of follow-up

Text
 E.g. Number of years at follow-up – small sample size over a number of years etc.

APPENDIX D: ACCESS DATABASE MANUAL AND DATA ENTRY RULES

Global Burden of Disease study: Overview

We are collecting data to generate regional estimates of: Prevalence; Incidence; Remission; Duration; and mortality, for 5 different types of drug dependence: amphetamine-type stimulants (ATS); benzodiazepine; cannabis; cocaine; and heroin and other opioids.

Estimates need to be made for 1990 and 2005, reflecting the general population.

Ideally raw data should be used, however in cases where the study is a comparison against a survey that we cannot otherwise access, then it is appropriate to enter the reported (not raw) data but make sure that a comment is added in the estimates comment box (eg. "data from 2006 report") to note that this data is not raw and that it was used to avoid missing out on the data completely. Please keep note (on paper) of the years of data extracted from the report and give to XX.

Data extraction

- Endnote libraries contain the data sources that need to be extracted for each parameter (PDFs are attached to each reference).
- Prevalence and Incidence data sources will be in the same library
- Remission and duration sources will be in the same library
- Mortality sources are in their own library

Interns: please enter data into the **1**st **entry windows only**

Estimates will be entered as 1^{st} Entry by the first person that looks at the data, then a second time in the 2^{nd} Entry by the person who is looking at the data. The Final Entry will function to cross-check the data entered for a source. Make sure that the second entry of an estimate is matched with second entry of the same estimate.

Only enter raw data.

Do not process any calculations; only enter what is presented in the publication.

Once you start entering information from a data source, you must extract ALL the data from the data source (please do not partially enter data from a source).

Data must be entered in ALL fields. If a field is not applicable or data is missing, please enter "999" (see General GBD Database Rules).

If an article reports on data from more than one country – an entirely new entry needs to be created from the Studies Summary window

Once extracted, please make a note in the endnote library under Research Notes "extracted by *insert name here, insert date here dd month year*", eg. "extracted by Bianca Calabria, 16 June 2008".

If you start creating the final entries for a data source (automatically cross-checking the 2 previous entries or copying the first entry to the final entry), you must complete all the final entries of each estimate for that data source.

Prevalence and Incidence specifics: RAW DATA ONLY

Many articles will report older data for comparisons. Please only extract the data which were the product of the **current** study or survey. However, at present (due to time constraints), when a report displays estimates from previous years of the same survey please extract all years of data. For previous survey year data enter a comment in the estimate comments box, "data from the 2006 report", for example. Please keep note (on paper) of the years of data extracted from the report and give to Bianca.

ALL PREVALENCE ESTIMATES

Drug use prevalence can be measured in several ways:

Lifetime Prevalence (LT) (ie: has the person ever tried the drug, even once)

Past year prevalence (PYP): has the person used the drug in the previous 12 months

Past month prevalence (PMP): also Past 30 day Prevalence (has the person used the drug in the last month/30 days)

For the GBD we are most interested in PMP, however, we need to collect data on all three types of prevalence, whenever they are reported. So, if an article reports on all three – please extract them ALL.

WEIGHTED AND UNWEIGHTED ESTIMATES

Some papers will report both weighted and unweighted estimates. Weighted estimates have been adjusted so that the sample is representative of the general population.

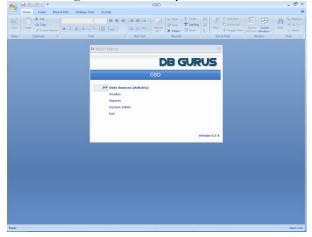
Please extract BOTH WEIGHTED and UNWEIGHTED.

Weighted estimates should have the Standardised box ticked, with a comment about how and why the statistics were weighted (if possible)

GBD Database Instructions

****DO NOT USE ROLLER ON MOUSE****

Open the GBD database (front end) file, to the main menu. Clicking once is enough, double clicking is not necessary.



Data Source (Articles)

Click once on *Data Sources (Articles)* to view the *Data Source Summary*.

Headers can be clicked once to sort lists in ascending order, a second click will sort in descending order.

Data Source Summary					Х
Author*	Year*	Title*	Journal*	Volume*	
□ J R Token □ gdhîhd □ abc	1990 1790 1990	The Big Book Test Test1	Journal 123 fghj	233) fdgg	EEE
Count 3 * Click headers to sort list. First click sort list in A	ASC order, second a	lick in DESC order.	Delete	New	Close

Create a new article entry

To create a new article entry click **new** at the bottom right of the screen.

🛤 Data Source 🛛	Detail 🗙
ID	(New)
Author	
Year	
Title	
Journal	
Volume	
Pages	
Organisation	
Abstract	
Drug Type	
Language	English 🗸
Other, please specify	
Literature Type	~
	<u>S</u> ave <u>C</u> ancel

Enter data in ALL fields, then click **save** and **close** (abstract field can be left blank). Click **close** in the *Data Source Summary* screen to return to the main menu.

Edit an existing article entry

To edit an existing article entry click on the icon on the far right of the screen that is associated with the entry you wish to edit.

Data Source Summary					Х
K Author*	Year*	Title*	Journal*	Volume*	
□ JR Token □ gdnMid □ abc	1990 1790 1990	The Big Book Test Test1	Journal 123 fghj	233) fdgg	
Count 3 * Click headers to sort list. First dick sort list	t in ASC order, second c	lide in DESC order.	Delete	New	<u>C</u> lose

Then

Click edit on the bottom of the *Data Source* screen to edit existing information. Click save and close.

😕 Data Source E	. M. Adlaf, P. Begin and E. Sawka.	x
ID	108	
Author	E. M. Adlaf, P. Begin and E. Sawka.	
Year	2005	
Title	Canadian Addiction Survey	
Journal	999	
Volume	999	
Pages	999	
Organisation	Canadian Centre on Substance abuse	
Abstract		
Drug Type	Cannabis	~
Language	English	~
Other, please specify	999	
Literature Type	Grey	~
	<u>Edit</u> <u>Close</u>	

Click **close** to return to the main menu.

Deleting report/article information

In the **Data Source Summary** screen select the report/article you wish to delete by ticking the box to the left of the report/article information. Then click **delete** at the bottom right of the screen.

Author*	Year*	Title*	Journal*	Volume*	
Test1	2000	2000	223	233	
Test Author 106	1995	Title Sample Title			3
J R Tolkein	1990	The Big Book	Journal 123	233J	1
XYZ	2002	The small book	233K	434	
Wang, C., D. Vlahov, N. Galai, S.R. Cole, J.	2005	The effect of HIV infec	Aids	19 (9)	
Benjet, C., Borges, G., Medina-Mora, M. E.	2007	Prevalence and socio-	Addiction	102	

A message asking if you want to delete the specified report/article information will appear, click yes.

GBD
1 record(s) will be deleted. Do you want to proceed?

Studies

From the Main Menu click once on *Studies* to view the *Studies Summary*.

🚟 Main Menu	
	DB GURUS
C	GBD
>> Data Sources (Articles) Studies	
System Admin Exit	
	Version 0.7.10

Creating new study information (following on from creating new article entry)

To create a new study entry, that is new study information following on from entering the new article information, click **new** at the bottom right of the screen.

Data Source*	Location*	Country*	Region*	Study Type*
Test		Australia	Australia	Cohort study
The Big Book		Australia	Australia	Cohort study
The Big Book		Australia	Australia	Cross-sectional study
Test		Australia	Australia	Case-control study
Test		Australia	Australia	Case-control study
Test		Australia	Australia	Cohort study
Test	Latur	Australia	Australia	Survey 📑
The Big Book	Pune	Australia	Australia	Cross-sectional study
The Big Book	Pune	Australia	Australia	Cross-sectional study
Count 9				Delete New

Study Detail Section 1

🛤 Study Details		x
Study Detail Section1 Stud	dy Detail Section2	
D (New)	Study Type Data Source Title	~
Location	Region Country	
Urbanicity	Ethnicity	
Quality Index		
Case Asce		
Diagnosis Mea	asurement	
		~
Completeness		×
Representativeness		×
Age/Sex Num/Den Area/Epoch		
Quality Index Notes		
adding mack reacto		
Eat	timate Type All	
	rpe of Estimate Lower Age Upper Age Female Estimate Male Estimate Total Estimate	_
TearorEsumate ry	pe or Estimate Lower Age. Opper Age i emale Estimate Mate Estimate i fotal Estimate	
	New Estimate	
	Save Cancel	

First select the authors of the particular article from the *Data Source Title* drop down box. Enter data in ALL remaining fields on the *Study Detail Section 1* screen.

Select the *Study Detail Section 2* screen by clicking on the labelled tab at the top left of the screen.

Study Detail See	ction 2		
🔑 Study Details			x
Study Detail Section1 Study Detail S	ection2		
Epoch Start Epoch End	Population Sampling Strategy		
N	Sampling Strategy Other		
Minimum Age At Intake	Minimum Age At FU	Male N	
Maximum Age At Intake	Maximum Age At FU	Male Percent	
Age Mean At Intake	Age Mean At FU	Person Yrs FU	
Age Median At Intake	Age Median At FU	Lost To FU	
Response Rate (%)	Attrition Rate (%)		
Age Comments	Person Yrs	FU Notes	
Comments	PL.		
Estimate Ty	vpe All	v	
Year of Estimate Type of Es	timate Lower Age Upper Age Fema	ile Estimate Male Estimate Total Estimate	
		New Estimate	
		Save Cancel	

Enter data in ALL fields on the *Study Detail Section 2* screen (including *Estimate Type*). Click **save**.

Reports/articles that present data on more than one country.

Click **new** at the bottom right of the *Studies Summary* screen. Select the appropriate author/date from the *Study Detail Section 1* screen and enter data for one of the countries reported on. Click save and close.

To enter the data for a different country presented in the same report/article, need to make a new record. Click **new** from the Studies Summary screen, select the appropriate author/date in the *Study Details Section 1* screen and input data. Click **save** and **close**.

In the *Studies Summary* screen the data source will be displayed twice, with the different country shown for each display.

Editing existing study information

	Summary					
StudyID*	Data Source*	Location*	Country*	Region*	Study Type*	Entry In Estimate*
108	E. M. Adlaf, P. Begi	National	Canada	NORTH AMERICA, HIGH INCC	Cross-sectional study	Started
Count	1				<u>D</u> elete <u>N</u> er	w Close

To edit existing study information click on the icon on the far right of the screen that is associated with the entry you wish to edit.

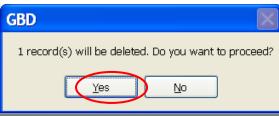
Click edit on the bottom of the *Study Details* screen to edit existing information (*Study Detail Section 1* and *Study Detail Section 2* may both be edited, change between screens by clicking on the appropriately labelled tab at the top left of the screen). Click save and close.

Deleting study information

In the *Study Summary* screen select the report/article you wish to delete study information for by ticking the box to the left of the report/article information. Then click **delete** at the bottom right of the screen.

		Stud	ies Summary	/				x
	I	StudyID*	Data Source*	Location*	Country*	Region*	Study Type*	Entry In Estimate*
		99	Test Author 106 19		Antigua and Barbuda	ASIA PACIFIC, HIGH INCOME	Database review stud	y 📑
(×	101	Test1 2000		Albania	ASIA, CENTRAL	Cohort study	Started 📑
		58	J R Tolkein 1990		Albania	ASIA, CENTRAL	Database review stud	v 🖃
		95	Test Author 106 19		Albania	ASIA, CENTRAL	Cross-sectional study	
		92	Test Author 106 19		Afghanistan	ASIA, CENTRAL	Cohort study	3
		100	Test Author 106 19		Angola	ASIA, EAST	Cross-sectional study	8
		111	Wang, C., D. Vlaho	la	Afghanistan	ASIA, SOUTH	Case-control study	
		97	J R Tolkein 1990		American Samoa	ASIA, SOUTHEAST	Cross-sectional study	
		96	Test1 2000	AUSTRALASIA	American Samoa	AUSTRALASIA	Cross-sectional study	
		109	Benjet, C., Borges,	Mexico City	Mexico	LATIN AMERICA, CENTRAL	Survey	Completed 📑
		108	Wang, C., D. Vlaho	Baltimore	United States of Ameri	NORTH AMERICA, HIGH INCC	Cohort study	Completed 📑
		Coun	t 11			9	<u>D</u> elete <u>N</u> ev	V Close
	٠	Click hea	iders to sort list. First	t click sort list in As	SC order, second click in DE	SC order.		

A message asking if you want to delete the specified report/article information will appear, click **yes**.



Estimate Details

Creating a new estimate entry (following on from creating new study information)

In the Studies Summary screen, click on the icon on the far right of the screen that is associated with the entry you wish to add an estimate.

Click edit, at the bottom right of the *Study Details* screen.

Click New Estimate, at the bottom right of the *Study Details* screen.

The f^{st} Entry radio button should be selected if this is the first time data has been extracted from an article/report, 2^{nd} Entry radio button should be selected if this is the second time data has been extracted from the same article/report (not by the same person that entered the 1st entry), the final entry functions to compare the 1st and 2nd entries.

Only estimate information is entered into the database in the second entry, however, article/report and study information should be visually checked for errors by the second person entering estimate information.

Once data has been entered in ALL the fields click save and close.

In the *Study Details* screen click save and close to return to the *Studies Summary* screen.

Deleting estimate information

To delete an estimate, open up the estimate and click the delete button situated at the bottom right of the box.

Comparing the 1st Entry and the 2nd Entry

In the *Studies Summary* screen, click on the icon on the far right of the screen that is associated with the entry for which estimates you would like to compare.

In the *Study Details* screen click **edit** at the bottom right of the screen.

In the estimate summary section at the bottom of the screen, click on the icon on the far right of the screen that is associated with the estimate that comparison of entries is required.

Check that both the 1st and 2nd entries have been completed by clicking the radio buttons at the top right of the screen. If both are complete click on the radio button for the *Final Entry*, then click **edit**.

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Specific Estimate Type	Past Year Prevalence		~			
Entry ID 617	Esti	imate Comme	ents			
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Summary						
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Female			Male			
Estimate	1.5 Numerator	S	99 Estimate	2.5	Numerator	999
CI Confidence	95 Denominator	S	99 CI Confidence	ce 95	Denominator	999
CI Lower	0.8 Standard Error	S	99 CI Lower	1.8	Standard Error	999
Cl Upper	1.9 Radix	S	99 CI Upper	2.9	Radix	999
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Entries that have been entered identically across 1st and 2nd entries will automatically appear in the final entry. Fields highlighted in pink do not match across 1st and 2nd entries and must be checked and correct responses entered manually.

Click save and close.

Queries

Linking tables from the Access database that holds the data to the new Access database that holds the queries:

Open a new Access file

Highlight Tables in the left hand list

Right click and select: "Link tables"

Choose folder containing the Back End

Double click on the back end file

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Choose "Select all" Click "OK"

To make a query:

choose Queries from the left hand list Select "New" Select "Design view" Right click over the blank area and choose "Show Table" Choose the table that contains the data you want to run reports from Continue doing this until you have selected all the tables containing the data you want to pull

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Use the drop down box in the Table row to select the relevant Table Use the drop down box in the Field Row to choose the specific information Press the red exclamation mark on the toolbar to run the report

GBD Database - Data Entry Rules

Data Source (Articles)			
Variable	Database Rules		
All relevant text can (and should!) be copied and pasted directly from Endnote			
Author/s	 First author surname, 1st initial., second author surname, 1st initial., & final author surname, 1st initial. 2nd initial. Eg. Singleton, J., Calabria, B., & Roberts, A. S. Insert editors if no authors are stated with "eds." after their names For EMCDDA reports without authors or editors, type EMCDDA – <i>country of report</i>. If there is no Author, enter the Data Source ID (which is the top field in the Data Source Detail window) and the Country. Eg. "131 Australia" When multiple entries have the same authors (eg. Monitoring the Future) enter 1st author name, volume of report (if applicable) and year of publication, followed by list a all authors (as would usually be entered). 		
Year	Year of Publication Year of Publication can be copied and pasted from Endnote		
Title	Title of article/report		
Journal	Name of Journal (if applicable)		
	For non-journal sources enter 999		
Volume	Journal Volume(Issue) [if applicable] Eg. 118(4) Journal Volume: Issue can be copied and pasted from Endnote For non-journal sources enter 999		

Variable	Database Rules
Pages	Start page – end page (if applicable)
	Eg. 115-118
	Start and end page can be copied and pasted from Endnote
	For non-journal sources enter 999
Organisation	For grey literature publications indicate the organisation that is
Abstract	Article abstract (if applicable)
Drug Type	Chose from drop down box
	NB: If cocaine powder and crack are reported separately, you
	will need to type this into the "Estimate Comments" box on
	the Estimate Details window
Language	Determines which language the article/report is written in.
	Select from drop down box
	English
	Other (specify other language in Other, please specify field)
Other, please specify	For languages other than English specify which language the
	article/report is written in (Other should have been selected
	from the <i>Language</i> drop down box)
Literature type	Indicate whether the literature type is white (peer reviewed) or
	grey (material that is not formally published by commercial
	publishers).
	Select from drop down box
	Grey
	White

Studies

Study Detail Section 1

Variable	Database Rules
Data Source Title	Select correct authors from drop down box
Study Type	Select study type from drop down box:
	Cohort study
	Cross-sectional study
	Case-control study
	Database review study
	Survey
	Indirect prev est (e.g., capture-recapture, multiplier)
Location	Type specific location of the study.
	If countrywide, type "National"
Region	Select appropriate GBD region from drop down box
Country	Select country were study took place from drop down
	box
Urbanicity	Select from drop down box
	Urban/metropolitan
	Rural
	Mixed/Other – suburban, etc.
	Only select an option if specifically reported in data
	source. Otherwise leave blank.
Ethnicity	Leave blank

NOTE: For mortality extraction, there is a different quality index

Variable	Database Rules
Case ascertainment	Ascertainment of cases nationwide or regionally? Select from drop down box Community/nationwide survey/register/database Case registers/Regional death registers/One treatment institution/hospital Not specified NOTE: For studies using indirect prevalence estimation (e.g., capture-recapture), choose 'Community/nationwide survey/register/database'
Measurement	Measurement instrument to determine cannabis use or dependence. Select from drop down box Interview/self-reported drug use/In treatment for drug dependence Systematic case note/database/reports review/blood and/or urine toxicology screen Chart diagnosis Not specified NOTE: For studies using indirect prevalence estimation (e.g., capture-recapture), choose 'Interview/self-reported drug use/In treatment for drug dependence'
Diagnosis	Indicates whether cannabis dependence was diagnosed. Select from drop down box Any diagnostic system reported for drug dependence or abuse/Dependence inferred from type of sample population Drug use/Own system/Symptoms described If not reported, leave blank and make note in quality index comments that "Diagnosis" not reported. NOTE: For studies using indirect prevalence estimation (e.g., capture-recapture), choose 'Any diagnostic system reported for drug dependence or abuse/Dependence inferred from type of sample population'
Estimate	Estimate presented (e.g. prevalence, incidence, mortality, relative risk, etc.) Select from drop down box Yes No
Num/Den	Was the numerator and denominator presented for ALL the estimates of interest? Select from drop down box Yes No

Variable	Database Rules
Num/Den Area/Epoch	Were the numerator and denominator based on identical epochs and identical catchment areas for estimate of interest? That is, was the estimate (prevalence for example) calculated based on the sample (YES) or by use of population numbers for the denominator from the same year and area (YES)? Choose NO if the denominator is from a different year or area from the sample. Select from drop down box Yes No
Completeness	Captures response rates and attrition rates. Select from drop down box High response rate/inclusion of defined sample population (>80%) Moderate response rate (60% - 79%) Exclusions Poor response rate (<60%)made If response rate is not reported, please select "Exclusions Poor response rate (<60%) made" as this option is scored as 0 and make a comment in the quality index comments box that completeness was not reported. NOTE: For studies using indirect prevalence estimation (e.g., capture-recapture), choose 'High response rate/inclusion of defined sample population (>80%)'
Representativeness	 Determines generalisability of the sample to the population Select from drop down box Well represented/National registers/Multiple institutions across states Small area/Not representative of nation/One treatment centre/Registers of specific populations Convenient sampling/Other If not reported, leave blank and make note in quality index comments that "Representativeness" not reported. NOTE: For studies using indirect prevalence estimation (e.g., capture-recapture), choose 'Well represented/National registers/Multiple institutions across states'
Age/sex	Identifies whether age and/or sex specific values were reported. Select from drop down box Yes (estimates dived by age and sex) Some (eg. sex and 2 broad age ranges only) No
Quality	To capture methods that were not reported on by other variables (free text)

Variable	Database Rules
Duration FU	To obtain more information about follow-up periods
Duration 1 C	and sample sizes when doing so (free text)
Total	Automatically calculates the total Quality Index Score
Quality Index Notes	Insert any other quality information that has not been
Quality mater Notes	captured by other variables. For example, note
	· · ·
	whether the study is one that uses indirect prevalence
	methods, and state which data sources were used for this.
Estimato trans	
Estimate type Study Detail Section 2	No need to choose an option here.
Variable	Database Rules
Epoch start	Year that the study started.
Lpoen start	If the study only extends over one year enter the same year in
	Epoch start and Epoch end.
Epoch end	Year that the study ended.
I	If the study only extends over one year enter the same year in
	Epoch start and Epoch end.
Ν	Total number of people in the sample.
	If the number of people who responded to the drug use
	questions is reported, and this is different to the overall N, put
	in the drug response N here and make a note in the comments.
	Enter the total N in the Comments. Otherwise enter total
	sample N here.
Population	Specific information about the type of population.
- of manage	For a representative sample enter "general population".
Sampling strategy	Select from drop down box
r 8 8/	Simple random sampling
	Stratified random sampling
	Cluster sampling
	Systematic sampling
	Other
	Other (Matching
	Other (Snowballing)
	Other (Convenience)
	Other (please specify)
	Census
	If sampling strategy is not reported, select "Other" and enter
	"Not reported" in the Sampling strategy Other box.
Sampling strategy Other	If Other is selected from Sampling Strategy, indicate sampling
r o	strategy used here
	If Sampling Strategy was not reported enter "Not reported"
	here
Minimum Age at Intake	The minimum age of the total sample at intake.
	Enter section/survey data into intake fields.
	If the study does not report the youngest age, enter "0" and
	make a comment in the age comments box indicating no
	minimum age reported.
	See end of manual for ages of U.S high school and college
	students.

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Lost To FU What % of the sample is lost to follow up?
Age Comments Additional comments about age.
Person Yrs FU Notes If person years of follow up are reported by age and/or sex,
please record this here.
Comments If a peer reviewed article reports on an aspect of a larger
survey, note which survey the data comes from in the
comments box.
Must enter text or alternatively "999" if no comments are
required.
Estimate Type Select type of estimate from drop down box
Duration
Incidence
Mortality
Prevalence
Remission
Estimate Details
Variable Database Rules

Variable	Database Rules
Entry	Click the radio button for 1 st Entry for the first time the data is entered for and article, 2 nd entry for the second time the data is entered for the same article and final entry when you want to compare the 1 st and 2 nd entries.
Estimate Type	Select estimate type from drop down box Duration Incidence Mortality Prevalence Remission
Specific Estimate Type	Select specific estimate type from drop down box Duration Incidence Cumulative incidence Past Year Incidence Mortality CMR (Crude Mortality Rate) SMR (Standardised Mortality Ratio) RR (Relative Risk) OR (Odds Ratio) HR (Hazard Ratio) CFR (Case Fatality Ratio) Other, please specify (specify in <i>Estimate Comments</i>) Prevalence Lifetime Prevalence Past Year Prevalence Past Year Prevalence Remission Abstinent Still using, not dependent Still met criteria for dependence Relapsed
Cause of Death	For mortality estimates only. If mortality, "other, please specify" put details in <i>Estimates</i> <i>Comments</i>
Estimate Comments	Add extra information that is not captured by other variables. If cocaine powder and crack cocaine are reported separately, type "Crack cocaine" or "Cocaine powder" here
SUMMARY	
Drug	Indicates use or dependence, select from drop down box Use Dependence Other (eg. abuse – specify in <i>Estimate Comments</i>)
Year	Year of estimate If data were collected across 2 years (eg: July 2004 until May 2005) enter "0405" (this includes mortality cohorts). If no year of estimate is stated then insert the publication year minus 2 years

Variable	Database Rules
Age Lower	Minimum age of age group for which estimate is reported.
	If only reporting for one age, put the same age in Age Lower
	and Age Upper.
	If estimate applies to entire sample, enter the youngest age
	from the age range
	If the study does not report the youngest age, enter "0" and
	make a comment in the age comments box indicating no
	minimum age reported.
	See end of manual for ages of U.S high school and college
	students.
Age Upper	Maximum age of age group for which estimate is reported.
	If only reporting for one age, put the same age in Age Lower
	and Age Upper.
	If estimate applies to entire sample, enter the oldest age from
	the age range
	If no maximum age is reported, enter "99" and make a
	comment in the age comments box indicating no maximum age
	reported.
	See end of manual for ages of U.S high school and college
	students.
FEMALE	
Estimate	Estimate reported for females (eg. past year prevalence)
CI Confidence	Type of confidence interval used, as a percent.
Ci Comuchec	Eg. For a 95% CI, 95 would be entered
CI Lower	Lower limit of the confidence interval
CI Upper	Upper limit of the confidence interval
Numerator	Numerator of the estimate, if reported.
Denominator	Denominator of the estimate, if reported.
Standard error	Standard error of the estimate.
Radix	Indicate how estimates are given, uniformly per 10* of
	population. e.g. per 100000 or 100
Standardised	Tick box if the estimate standardised.
	Leave the box blank if the estimate is not standardised.
How Standard	If the estimate is standardised, indicate how/ by what.
MALE	
Estimate	Estimate reported for males (eg. past year prevalence)
CI Confidence	Type of confidence interval used, as a percent.
	Eg. For a 95% CI, 95 would be entered
CI Lower	Lower limit of the confidence interval
CI Upper	Upper limit of the confidence interval
Numerator	Numerator of the estimate, if reported.
Denominator	Denominator of the estimate, if reported.
Standard error	Standard error of the estimate.
Radix	Indicate how estimates are given, uniformly per 10* of
	population. e.g. per 100000 or 100
Standardised	Tick box if the estimate standardised.
	Leave the box blank if the estimate is not standardised.
How Standard	If the estimate is standardised, indicate how/ by what.
TOTAL	

Variable	Database Rules
Estimate	Estimate reported for both males and females combined (eg.
	past year prevalence)
CI Confidence	Type of confidence interval used, as a percent.
	Eg. For a 95% CI, 95 would be entered
CI Lower	Lower limit of the confidence interval
CI Upper	Upper limit of the confidence interval
Numerator	Numerator of the estimate, if reported.
Denominator	Denominator of the estimate, if reported.
Standard error	Standard error of the estimate.
Radix	Indicate how estimates are given, uniformly per 10* of
	population. e.g. per 100000 or 100
Standardised	Tick box if the estimate standardised.
	Leave the box blank if the estimate is not standardised.
How Standard	If the estimate is standardised, indicate how/ by what.

General GBD Database Rules

Situation	Entry	Comments		
Missing data/not	999	All fields in the database must be completed.		
applicable		Enter the missing data code if field is not		
		applicable or study does not report on a		
		particular variable		
For EMCDDA Data; These are the standardised rules for entering EMCDDA				
Location	"National" unless otherwise specified			
Urbanicity	"Mixed/other" unless otherwise specified			
Ethnicity	Left blank as no general rule is applicable			
Case Ascertainment	"Community/Nationwide survey/Register/Database"			
Measurement	"Interview/Self-reported Drug Use/In treatment for Drug Dependence			
Diagnosis	"Drug use/own system/ symptoms described"			
Completeness	Left blank unless specified			
Representativeness	"Well represented/ national	registers/ multiple institutions across states"		

Ages for U.S High School and College Students

	High school students		College students	
	8 th grade	13-14 years		
Freshman	9 th grade	14-15 years	18-19 years	
Sophomores	10 th grade	15-16 years	19-20 years	
Juniors	11 th grade	16-17 years	20-21 years	
Seniors	12 th grade	17-18 years	21-22 years	

For further information data extraction and the Access database see also: <u>http://www.gbd.unsw.edu.au/gbdweb.nsf/resources/Methodology_pt3c_Drugs/\$file/GBD_M</u> <u>ethodology_pt3b_IllicitDrugs_08Oct08.pdf</u>

APPENDIX E: SEARCH STRINGS FOR ANY EVIDENCE OF USE IN SPECIFIC COUNTRIES

Databases/Search Engine		Search Group	Search terms
GoogleScholar		ATS	ATS OR amphetamine OR methamphetamine
			OR stimulants
		Drug use	"drug use" OR "drug abuse" OR "substance use"
		_	OR "substance abuse"
		Country	"country name"
WorldCat/	PubMed/	ATS	ATS OR amphetamine OR methamphetamine
PsychINFO			OR stimulants
		Drug use	"drug use" OR "drug abuse" OR "substance use"
			OR "substance abuse"
		Country	"country name"

APPENDIX F: GLOBAL BURDEN OF DISEASE COUNTRY AND REGION LIST

ASIA PACIFIC, HIGH INCOME

Brunei Japan Republic of Korea Singapore

ASIA, CENTRAL

Armenia Azerbaijan Georgia Kazakhstan Kyrgyzstan Mongolia Tajikistan Turkmenistan Uzbekistan

ASIA, EAST

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China Democratic People's Republic of Korea Hong Kong Taiwan

ASIA, SOUTH

Afghanistan Bangladesh Bhutan India Nepal Pakistan

ASIA, SOUTHEAST

Cambodia Indonesia Lao People's Democratic Republic Malaysia Maldives Mauritius Mayotte Myanmar Philippines Seychelles Sri Lanka Thailand Timore Leste Viet Nam **AUSTRALASIA** ~ Australia New Zealand

CARIBBEAN

Anguilla Antigua and Barbuda Aruba Bahamas Barbados Belize Bermuda British Virgin Islands Cayman Islands Cuba Dominica Dominican Republic French Guiana Grenada Guadaloupe Guyana Haiti Jamaica Martinique Montserrat Netherlands Antilles Saint Kitts and Nevis St. Lucia St. Vincent Suriname Trinidad and Tobago Turks and Caicos Islands

EUROPE, CENTRAL

~ Albania Bosnia and Herzegovina Bulgaria Croatia Czech Republic Hungary Poland Romania Serbia and Montenegro Slovakia Slovenia The Former Yugoslav Republic of Macedonia

EUROPE, EASTERN

~ Belarus Estonia Latvia Lithuania Republic of Moldova Russian Federation Ukraine

EUROPE, WESTERN

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Andorra Austria Belgium Channel Islands Cyprus Denmark Faeroe Islands Finland France Germany Gibraltar Greece Greenland Holy See Iceland Ireland Isle of Man Israel Italv Liechtenstein Luxembourg Malta Monaco Netherlands Norway Portugal Saint Pierre et Miquelon San Marino Spain Sweden Switzerland United Kingdom

LATIN AMERICA, ANDEAN

Bolivia Ecuador Peru

LATIN AMERICA, CENTRAL

Colombia Costa Rica El Salvador Guatemala Honduras Mexico Nicaragua Panama Venezuela

LATIN AMERICA, SOUTHERN

Argentina Chile Falkland Islands (Malvinas) Uruguay

LATIN AMERICA, TROPICAL \sim

Brazil Paraguay

NORTH AFRICA / MIDDLE EAST

Algeria Bahrain Egypt Iran (Islamic Republic of) Iraq Jordan Kuwait Lebanon Libyan Arab Jamahiriya Morocco Occupied Palestinian Territory Oman Oatar Saudi Arabia Syrian Arab Republic Tunisia Turkev United Arab Emirates

Western Sahara Yemen

NORTH AMERICA, HIGH INCOME

~ Canada United States of America

OCEANIA

American Samoa Cook Islands Fiji French Polynesia Guam Kiribati Marshall Islands Micronesia (Federated States of) Nauru New Caledonia Niue Northern Mariana Islands Palau Papua New Guinea Pitcairn Samoa Solomon Islands Tokelau Tonga Tuvalu Vanuatu Wallis and Futuna Islands

SUB-SAHARAN AFRICA, CENTRAL

~ Angola Central African Republic Congo Democratic Republic of the Congo Equatorial Guinea Gabon

SUB-SAHARAN AFRICA, EAST

~ Burundi Comoros Djibouti Eritrea Ethiopia Kenya Madagascar Malawi Mozambique Rwanda Somalia Sudan Uganda United Republic of Tanzania Zambia

SUB-SAHARAN AFRICA, SOUTHERN

Botswana Lesotho Namibia South Africa Swaziland Zimbabwe

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NATIONAL DRUG AND ALCOHOL RESEARCH CENTRE

The National Drug and Alcohol Research Centre (NDARC) is a premier research institution in Australia and is recognised internationally as a Research Centre of Excellence. The Centre is multidisciplinary and collaborates with medicine, psychology, social science and other schools of the University of NSW, as well as with a range of other institutions and individuals in Australia and overseas.

The overall mission of NDARC is to conduct high quality research and related activities that increases the effectiveness of Australian and International treatment and other intervention responses to alcohol and other drug related harm.

In addition to the research conducted at the Centre, other NDARC activities include an Annual Symposium and a range of special conferences and educational workshops. As well as contributing to scientific journals and other publications, NDARC produces its own Research Monographs and Technical Report Series. In conjunction with the National Drug Research Institute in Perth, NDARC also produces a free quarterly newsletter, CentreLines, to increase communication between the national research centres, other researchers and workers in the alcohol and other drug field.



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