

THE LANCET

Global Health

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

This online publication has been corrected. The corrected version first appeared at thelancet.com/lancetgh on November 15.

Supplement to: Degenhardt L, Peacock A, Colledge S, et al. Global prevalence of injecting drug use and sociodemographic characteristics and prevalence of HIV, HBV, and HCV in people who inject drugs: a multistage systematic review. *Lancet Glob Health* 2017; **5**: e1192–207.

Appendices for “Global prevalence of injecting drug use and sociodemographic characteristics and prevalence of HIV, HBV, and HCV in people who inject drugs: a multistage systematic review”

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Appendix 1: GATHER and PRISMA checklists

1.1 GATHER checklist

#	GATHER checklist item	Description of compliance	Reference
Objectives and funding			
1	Define the indicators, populations, and time periods for which estimates were made.	Narrative provided in paper and methods appendix describing indicators, definitions, and populations	Manuscript (Methods) and methods appendix
2	List the funding sources for the work.	Funding sources listed in paper	Summary (Funding)
Data Inputs			
<i>For all data inputs from multiple sources that are synthesized as part of the study:</i>			
3	Describe how the data were identified and how the data were accessed.	Narrative description of data seeking methods provided	Manuscript (Methods) and appendix
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	Narrative about inclusion and exclusion criteria by data type provided	Methods appendix
5	Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant.	Included in appendix and will be accessible online	Appendix and online web page
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	Discussed in limitations section and in methods appendix	Manuscript and appendix
<i>For data inputs that contribute to the analysis but were not synthesized as part of the study:</i>			
7	Describe and give sources for any other data inputs.	N/A	N/A
<i>For all data inputs</i>			

1.2 PRISMA checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	3-4
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	4
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, where it can be accessed, and, if available, provide registration information including registration number.	5
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	20, appendix
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	5, appendix
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	Appendix
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5-6
Data collection process	10	Describe method of data extraction (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	Appendix
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	Appendix
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	n/a
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	6-7, Appendix
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	7-8, App.
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	App.
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	n/a
RESULTS			
Study selection	17	Give no. studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	19
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	Appendix
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	n/a
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	n/a
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	30-34, Appendix
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	Appendix
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	App.
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups	13
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	14-15
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	15

Section/topic	#	Checklist item	Reported on page #
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	2, 8

Appendix 2: Peer Reviewed Literature Search

Three peer reviewed literature databases were searched in this exercise: Medline, EMBASE, and PubMed.

Listed below are the different literature and search strategies and terminologies used for each of the different databases. Because different databases use different terminologies and require searching in different ways it was necessary to develop search strategies for each database.

These searches were developed in close consultation with a specialist drug and alcohol archivist and with a generalist university librarian with expertise across all the databases searched.

2.1 Medline Search Strategy

The search strategy was as follows:

- **IDU:** results were restricted to those articles for containing terms from Search 1 and 2 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **HIV:** results were restricted to those articles containing terms from Search 1 and Search 3 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **Hepatitis:** results were restricted to those articles containing terms from Search 1 and Search 4 (combined using 'AND') published 2011-Current and limited to population group: humans.

Searches were conducted in April 2016 and updated in May 2017, the latter covering the period from 2016-Current.

Key-words are noted below in regular type, 'MESH' (Medical subject heading) terms in **bold**.

Search 1: Injecting drug use
IDU OR IDUs OR PWID OR "injecting drug" OR "intravenous drug" OR "injecting substance" OR "intravenous substance" OR "people who inject drugs" OR "injection drug use" OR exp substance abuse, intravenous/

Search 2: Epidemiology
"data collection" OR "population study" OR "population sample" OR "population survey" OR "population surveillance" OR "community sample" OR "rapid assessment" OR "situation\$ assessment" OR "prevalence"

OR "epidemiolog\$" OR "surveillance" OR "screening" OR "seroprevalence" OR "cohort" OR "RAR" OR "statistics" OR exp epidemiologic methods/ OR exp contact tracing/ OR exp data collection/ OR exp health surveys/ OR exp health care surveys/ OR exp interviews, psychological/ OR exp narration/ OR exp questionnaires/ OR exp medical records/ OR exp registries/ OR exp disease notification/ OR exp sentinel surveillance/ OR exp epidemiologic studies/ OR exp cohort studies/ OR exp longitudinal studies/ OR exp follow-up studies/ OR exp prospective studies/ OR exp cross-sectional studies/ OR exp seroepidemiologic studies/ OR exp hiv seroprevalence/ OR exp sampling studies/ OR exp focus groups/ OR exp delphi technique/

Search 3. HIV/AIDS

HIV or AIDS OR HIV/aids OR "Human Immunodeficiency Virus" OR "Human Immune Deficiency Virus" OR "Acquired Immunodeficiency Syndrome" OR "Acquired Immune Deficiency Syndrome" OR exp HIV/ or exp HIV-1/ or exp HIV-2/ or exp HIV infections/ or exp acquired immunodeficiency syndrome/ or HIV seropositivity/ or exp HIV seroprevalence/ or exp AIDS serodiagnosis/

Search 4: Hepatitis

Hepatitis OR exp hepatitis b/ OR exp hepatitis c/

Search 5: IDU and Epidemiology

Hepatitis OR exp hepatitis b/ OR exp hepatitis c/

2.2. Embase Search Strategy

The search strategy was as follows:

- **IDU:** results were restricted to those articles for containing terms from Search 1 and 2 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **HIV:** results were restricted to those articles containing terms from Search 1 and Search 3 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **Hepatitis:** results were restricted to those articles containing terms from Search 1 and Search 4 (combined using 'AND') published 2011-Current and limited to population group: humans.

Searches were conducted in April 2016 and updated in May 2017, the latter covering the period from 2016-Current.

Key-words are noted in regular type, 'EMTREE' terms in **bold**.

Search 1: Injecting drug use

IDU OR IDUs OR IVDU OR PWID OR "injecting drug" OR "intravenous drug" OR "injecting substance" OR "intravenous substance" OR **exp intravenous drug abuse/ OR exp intravenous drug administration/**

Search 2: Epidemiology

prevalence OR epidemiology OR "data collection" OR survey OR surveillance OR screening OR seroprevalence OR cohort 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 OR **Exp community assessment/ OR Exp health survey/ OR Exp mandatory reporting/ OR Exp seroepidemiology/ OR Exp seroprevalence/ OR Exp biostatistics/ OR Exp health statistics/ OR Exp epidemiology/ OR Exp prevalence/ OR Exp epidemiological data/ OR Exp disease registry/ OR Exp feasibility study/ 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 cohort analysis/ OR Exp exploratory research/ OR Exp multimethod study/ OR Exp quantitative analysis/ OR Exp sample size/ OR Exp medical record review/ OR Exp structured interview/ OR Exp observational method/ OR Exp questionnaire/**

Search 3: HIV

HIV OR AIDS OR HIV/AIDS OR "Human Immunodeficiency Virus" OR "Acquired Immunodeficiency Syndrome" OR "Acquired Immune Deficiency Syndrome" **exp human immunodeficiency virus/ or exp human immunodeficiency virus 1/ or exp human immunodeficiency virus 2/ or exp acquired immune deficiency syndrome/ or exp aids related complex/ or exp acquired immune deficiency syndrome/ or exp aids related complex/ or exp Human Immunodeficiency Virus Infection/ or exp human immunodeficiency virus prevalence/**

Search 4: Hepatitis

Hepatitis OR "hepatitis B virus" OR "hepatitis B" OR HBV OR "hepatitis B antibody" OR "hepatitis B antigen" OR "hepatitis C virus" OR "hepatitis C" OR HCV OR "hepatitis C antibody" OR "hepatitis A" OR "hepatitis A virus" OR "hepatitis A antibody" OR "hepatitis D" OR "hepatitis D virus" OR "hepatitis D antibody" OR "blood-borne virus" OR "blood borne virus" OR BBV OR **exp hepatitis/ OR exp hepatitis c virus/ OR exp hepatitis c/ OR exp hepatitis b virus/ OR exp hepatitis b/ or exp hepatitis A/ OR exp hepatitis A virus/**

2.3. PsycINFO Search Strategy

The search strategy was as follows:

- **IDU**: results were restricted to those articles for containing terms from Search 1 and 2 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **HIV**: results were restricted to those articles containing terms from Search 1 and Search 3 (combined using 'AND') published 2008-Current and limited to population group: humans.
- **Hepatitis**: results were restricted to those articles containing terms from Search 1 and Search 4 (combined using 'AND') published 2011-Current and limited to population group: humans.

Searches were conducted in April 2016 and updated in May 2017, the latter covering the period from 2016-Current.

Key-words in regular type, 'PsycINFO thesaurus' terms in **bold**.

Search 1: Injecting drug use
IDU OR IDUs OR IVDU OR PWID OR "injecting drug" OR "injection drug" OR "intravenous drug" OR "injecting substance" OR "intravenous substances" OR "people who inject drugs" OR exp intravenous injections/ OR exp intravenous drug usage/ OR exp drug self administration/

Search 2: Epidemiology
prevalence OR seroprevalence OR epidemiolog* OR socioepidemiolog* OR "population study" OR "population survey" OR "population surveillance" OR "community sample" OR "data collection" OR survey OR cohort OR "rapid assessment" OR RAR OR "situation assessment" OR statistics OR household survey OR national survey OR exp epidemiology/ OR exp data collection/ OR exp questionnaires/ OR exp surveys/ OR exp statistical data/ OR exp statistical samples/ OR exp sampling experimental/ OR exp cohort analysis/ OR exp medical records/ OR exp longitudinal studies/ OR exp followup studies/OR exp prospective studies

Search 3: HIV
HIV OR AIDS OR HIV/AIDS OR "Human Immunodeficiency Virus" OR "Acquired Immunodeficiency Syndrome" OR "Acquired Immune Deficiency Syndrome" exp HIV/ OR exp AIDS

Search 4: Hepatitis
HBV or HCV or hepatitis OR "hepatitis B" or "hepatitis C" or exp hepatitis

Appendix 3: Grey Literature Search

A wide range of online databases and websites were searched for additional information to that collected in the peer reviewed literature (see Table 3.1 below for full list). These databases are crucial sources of information on the epidemiology of injecting drug use and blood-borne virus among injecting drug users because so much of the work in this area appear to be published only in the form of reports. In total, we search 212 websites and databases, including: 114 government organisation and substance use organisation websites; 61 HIV and harm reduction organisation websites, six viral hepatitis databases/organisations, 5 HIV databases, and 26 miscellaneous organisation websites and ongoing study sites. The full technical report of grey literature sources is published elsewhere.¹

Table 3.1: Websites searched in the grey literature search

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Government organisation and substance use organisation websites			
Asia Pacific ATS Information Centre (APAIC) http://www.apaic.org/	1. Inject drug use	1. 3	1. 0
	2. Explored SMART publications	2. NA	2. 6
4 April 2016			Total: 6
Bahrain: Ministry of Health http://www.moh.gov.bh/en/	1. Inject drug use	1. 3	1. 0
	2. Explored site for publications and resources. Health info > publications > Department: Pharmacy & Drug Control Directorate	2. 2	2. 0
4 April 2016			Total: 0
Bangladesh Ministry of Health and Family Welfare http://www.mohfw.gov.bd/	1. Inject drug use	1. 0	1. 0
	Explored site for publications and resources. Found annual reports; in Bengali, script did not download to Microsoft word properly. Searched most recent document for ড্রাগ (drug). Search of document located 4 matches, translated these instances with google translate and the sections were not relevant.		
4 April 2016			Total: 0
Bhutan: Ministry of Health http://www.health.gov.bt/	Link to site not working, google search for Bhutan Ministry of Health turns up the same link. The page never loads after clicking on this link.	-	-
4 April 2016			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Brunei Ministry of Health http://www.moh.gov.bn/	Searched website using search option. Used the terms: 1. Inject drug use	1. 0	1. 0
4 April 2016	Explored site for publications and resources, nothing relevant found.		Total: 0
Dangerous Drugs Board: Republic of the Philippines http://www.ddb.gov.ph/	Searched website using 'Google Advanced Search' option. Used the terms: 1. Inject	1. 0	1. 0
	2. Explored statistics section	2. NA	2. 13
	3. Explored research section	3. NA	3. 0
	Unable to locate annual reports referenced in Tech Report		
4 April 2016			Total: 13
Hong Kong Dept of Health http://www.dh.gov.hk/	Searched website using search option. Used the terms: 1. Inject drug use	1. 0	1. 0
	2. Explored publications	2. NA	2. 2
4 April 2016			Total: 2
Iranian National Centre for Addiction Studies (INCAS) http://incas.tums.ac.ir/	Searched website using search option. Used the terms: 1. Injecting drug use	1. 6	1. 1
	2. IDU	2. 9	2. 1
	3. Needle OR syringe OR NSP	3. 8	3. 0
	4. Methadone maintenance OR opioid substitution therapy	4. 7	4. 0
	5. Voluntary counselling OR voluntary testing OR VCT	5. 4	5. 0
	6. ART OR HAART OR antiretroviral	6. 0	6. 0
	7. Condom	7. 5	7. 0
	8. Hepatitis	8. 5	8. 0
4 April 2016			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Total: 2			
Japan - Ministry of Health, Labour and Welfare http://www.mhlw.go.jp/index.html/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Needle and syringe program	1. 12	1. 0
	2. Opioid substitution treatment	2. 3	2. 0
	3. Injecting drug user AND condom	3. 6	3. 0
	Explored statistics section and 2015 annual report, found nothing relevant		
Total: 0			
4 April 2016			
Malaysian AIDS Council & Malaysian AIDS Foundation http://www.mac.org.my/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Injecting drug use	1. 20	1. 2
	2. Opioid substitution OR opioid maintenance	2. 0	2. 0
	3. VCT OR voluntary testing OR voluntary counselling	3. 1	3. 0
	4. ART OR HAART OR antiretroviral	4. 19	4. 0
	5. Condom	5. 14	5. 0
	6. hepatitis	6. 3	6. 0
	7. Explored the resources page	7. NA	7. 4
Total: 6			
5 April 2016			
Maldives: Ministry of Health and family http://www.health.gov.mv/			
	1. Explored statistics and news sections	1. 0	1. 0
5 April 2016	2. Research bulletins	2. 3	2. 0
Total: 0			
Myanmar: Ministry of Health http://www.moh.gov.mm/	Website search option links to general google search.		
	1. Explored publications section	1. 0	1. 0
5 April 2016			
	Annual reports and statistical reports make no mention of injecting drug use		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
		Total: 0	
Ministry of Public Health of Afghanistan http://www.moph.gov.af/	Website not in English. Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Inject drug use	1. 15	1. 0
	2. Explored archived reports and official documents section	2. NA	2. 1
5 April 2016	OST documents explored; provide policy information and recommendations only		Total: 0
Narcotics Division, Security Bureau Hong Kong http://www.nd.gov.hk/en/index.htm	Searched website using search option. Used the terms:		
	1. Opioid substitution	1. 9	1. 1
	2. Explored treatment and rehabilitation services section	2. NA	2. 2
	3. Explored drug statistics section	3. NA	3. 1
5 April 2016	Explored research section, some old documents look relevant, however download links are broken.		Total: 4
Nai Zindagi Trust Pakistan http://www.naizindagi.com/	1. Explored Publications	1. NA	1. 8
6 April 2016			Total: 8
National Statistics Institutes in Asia http://www.stat.fi/tup/tilvir/julkaisijat_aasia_tilastovirastot_en.html	Website provided click through options to the statistics bureaus of a number of countries. Each country link was followed and searched using the term "inject drug use":		
	1. Afghanistan	1. 10	1. 0
	2. Armenia	2. 31	2. 0
	3. Azerbaijan	3. 1	3. 1
	4. Bahrain	4. 0	4. 0
	5. Bangladesh	5. 14	5. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
6 April 2016	6. Bhutan	6. 0	6. 0
	7. Cambodia	7. 0	7. 0
	8. Cyprus	8. 0	8. 0
	9. East Timor	9. 0	9. 0
	10. Georgia	10. 0	10. 0
	11. Hong Kong	11. 55	11. 0
	12. India	12. 0	12. 0
	13. Indonesia	13. 0	13. 0
	14. Japan	14. 0	14. 0
	15. Korea	15. 0	15. 0
	16. Kyrgyzstan	16. 0	16. 0
	17. Lebanon	17. 0	17. 0
	18. Macao	18. 0	18. 0
	19. Malaysia	19. 0	19. 0
	20. Maldives	20. 0	20. 0
	21. Nepal	21. 0	21. 0
	22. Palestine	22. 0	22. 0
	23. Saudi Arabia	23. 0	23. 0
	24. Singapore	24. 0	24. 0
	25. Sri Lanka	25. 2	25. 0
	26. Taiwan	26. 30	26. 0
	27. Thailand	27. 2	27. 0
	28. Turkey	28. 0	28. 0
	29. Vietnam	29. 0	29. 0
	Countries listed on site but not here had broken click through links		Total: 1
Recovering Nepal http://www.recoveringnepal.org.np/	Searched website using 'Google Advanced Search' option. Used the terms: 1. Inject drug use	1. 0	1. 0
7 April 2016	Publications section of site empty		Total: 0
Oman: Ministry of Health http://www.moh.gov.om/	Searched website using 'Google Advanced Search' option. Used the terms 1. Injecting drug use AND needle OR syringe.		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
7 April 2016	2. Injecting drug use AND methadone OR buprenorphine	1. 0	1. 0
	3. Injecting drug use AND antiretroviral therapy	2. 0	2. 0
	4. Injecting drug use and AIDS OR HIV	3. 0	3. 0
	5. Injecting drug use and condoms	4. 0	4. 0
	6. Injecting drug use AND hepatitis	5. 0	5. 0
		6. 0	6. 0
	7. Explored statistical reports section and annual reports	7. NA	7. 0
		Total: 0	
Saudi Arabia Ministry of Health http://www.moh.gov.sa/en/index.php	Searched website using search option. Used the terms:		
	1. Injecting drug use		
	2. People who inject drugs	1. 4	1. 0
	3. Needle OR syringe OR exchange program	2. 1	2. 0
	4. Methadone OR opioid substitution therapy OR maintenance	3. 20	3. 0
	5. Voluntary counselling OR voluntary testing OR VCT	4. 32	4. 0
	6. Antiretroviral OR ART OR HAART	5. 7	5. 0
7 April 2016	7. Condom	6. 2	6. 0
		7. 3	7. 0
	8. Explored Open Data, Publications and Statistics and Indicators sections	8. NA	8. 0
		Total: 0	
Singapore Ministry of Health http://www.moh.gov.sg/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Injecting drug use		
	2. Needle syringe program	1. 14	1. 1
	3. Voluntary counselling AND injecting drug use	2. 9	2. 0
	4. Antiretroviral AND injecting drug use	3. 24	3. 0
	5. Condom AND injecting drug use	4. 4	4. 0
		5. 10	5. 0
	6. Searched the publications and statistics page of the website	6. NA	6. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
7 April 2016			Total: 1
Syrian Arab Republic Ministry of Health http://www.moh.gov.sy/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Inject OR Drug OR IDU	1. 6	1. 0
	2. Explored statistics section	2. NA	2. 0
9 April 2016			Total: 0
Tajikistan Ministry of Health http://www.health.tj/	Website not in English, domain "blocked," unable to access site		
9 April 2016			
Thailand Ministry of Public Health http://www.moph.go.th/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Injecting OR drug use OR IDU	1. 0	1. 0
	2. Explored health situation and trend section	2. NA	2. 0
9 April 2016			Total: 0
Tunisia Ministère de la santé Publique http://www.santetunisie.rns.tn/	English site not working. Searched website using 'Google Advanced Search' option. Used the terms:		
	3. "Injectable" (Fr = Inject) OR "Drug"	1. 0	1. 0
9 April 2016	4. Explored health situation and trend section	2. NA	2. 0
			Total: 0
United Arab Emirates Ministry of Health http://www.moh.gov.ae/	Searched website using 'Google Advanced Search' option. Used the terms:		
	1. Injecting OR drug use OR IDU	1. 0	1. 0
	2. Explored open data section		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
9 April 2016		2. NA	2. 0
			Total: 0
Australian Government Department of Health http://www.health.gov.au	1. Explored National Drug Strategy Household Survey	1. NA	1. 3
9 April 2016			Total: 3
Alcohol Advisory Council of New Zealand (ALAC) http://www.alac.org.nz/LibraryCatalogue.aspx	Searched website using website search feature: 1. Inject drug use	1. 2	1. 0
			Total: 0
9 April 2016			
DrugInfo Clearinghouse library – Australian Drug Foundation http://www.druginfo.adf.org.au	Searched website using website search feature: 1. Inject drug use	1. 57	1. 1
	2. Explored publications section	2. NA	2. 0
9 April 2016			Total: 1
Republic of Korea: Centers for Disease Control and Prevention http://www.cdc.go.kr/	Explored English section of website, no search option. Explored Korean site using search tool: 1. 주입 (inject) 2. 약 (drug)	1. 0 2. 3	1. 0 2. 0
9 April 2016			Total: 0
Fiji: Ministry of Health http://www.health.gov.fj/	Used website search feature: 1. Inject drug	1. 2	1. 0
	2. Explored publications section	2. NA	2. 0
	3. Explored data repository	3. NA	3. 0
9 April 2016			Total: 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
National Statistics Institute in Oceania http://www.stat.fi/tup/tilvir/julkaisijat_os_eania_tilastovirastot_en.html 9 April 2016	Website provided click through options to the statistics bureaus of a number of countries. Each country link was followed and searched using the term “inject drug use”:		
	1. Australia	1. 28	1. 0
	2. Fiji	2. 0	2. 0
	3. Guam	3. 0	3. 0
	4. Pacific Island Countries	4. 0	4. 0
	5. New Caledonia	5. 0	5. 0
	6. New Zealand	6. 2	6. 0
	7. Northern Mariana Islands	7. 0	7. 0
	8. Samoa	8. 0	8. 0
	9. Vanuatu	9. 0	9. 0
		Total: 0	
Samoa: Ministry of Health http://www.health.gov.ws/ 9 April 2016	Used website search feature:	1. 0	1. 0
	1. Inject drug		
	2. Explored publications section	2. NA	2. 0
Reports mention negligible levels of IDU in Samoa, but offer no further statistics		Total: 0	
Caribbean Public Health Agency http://carpha.org/ 9 April 2016	Used website search feature:		
	1. Inject drug	1. 15	1. 0
	2. Explored publications section		
Section on statistics not available to public access. Was unable to create an account to gain access. Mentions of substance abuse but no statistics.		Total: 0	
Andorra: Ministry of Health and Welfare http://www.salutibenestar.ad	Site not in English. Search the following terms		
	1. Injectar (Catalan = inject)	1. 0	1. 0
	2. Drogar (Catalan = drug)	2. 1	2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
11 April 2016	3. Explored national plan against drug addiction	3. NA	3. 0
	4. Explored publications	4. NA	4. 0
	Total: 0		
Austria: Federal Ministry for Health & Women http://www.bmgf.gv.at 11 April 2016	Explored English site.		
	1. Explored drug publications	1. NA	1. 6
	Some publications in German	Total: 6	
Belgium: Scientific Institute of Public Health http://www.iph.fgov.be 11 April 2016	Explored English site using search option:		
	1. Inject drug use	1. 5	1. 0
	2. Explored publications section.	2. NA	2. 0
11 April 2016	Only report from 2004-5	Total: 0	
Bulgaria: Ministry of Health www.mh.government.bg 11 April 2016	Website in Bulgarian, used google translate to navigate. Used website search option using term:		
	1. инжектирам (inject)	1. 0	1. 0
	2. Explored official bulletin section using term лекарство (drug)	2. NA	2. 0
Chile: Ministry of Health http://www.minsal.cl/ 11 April 2016	Website in Spanish, used google translate to navigate. Used website search option using term:		
	1. abuso de drogas (drug abuse)	1. 0	1. 0
	2. Explored publications/reports section	2. 0	2. NA
Croatia: Ministry of Health and Social Welfare http://www.mzss.hr/	Website in Croatian, used google translate to navigate. Used website search option using term:		
	1. droga (drug)	1. 25	1. 0
	2. Searched within documents for "droga"	2. 4	2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
11 April 2016			Total: 0
Cyprus: Ministry of Health http://www.moh.gov.cy	Searched English version of website. Used website search option using term: 1. drug	1. 6	1. 0
11 April 2016			Total: 0
New Zealand: Ministry of Health http://www.moh.govt.nz/	Used search option within publications section. Used the terms: 1. Inject drug use	1. 56	1. 1
	Used google advanced search option. Used terms: 2. Inject drug use AND AIDS	2. 114	2. 2
	3. Inject drug use AND hepatitis	3. 114	3. 0
11 April 2016			Total: 3
Alcohol Concern (UK) http://www.alcoholconcern.org.uk/services/home	Used search option within website. Used terms: 1. Inject drug	1. 1	1. 0
	2. Explore publication section	2. NA	2. 0
<u>11 April 2016</u>			Total: 0
Centre for Drug Research, University of Amsterdam, the Netherlands http://www.cedro-uva.org/index.html	Used search option within website. Used terms: 1. Inject drug	1. 9	1. 0
11 April 2016	Centre discontinued in 2004. No statistics/publications concerning data after then.		
			Total: 0
Czech Republic: Ministry of Health http://www.mzcr.cz/	Explored English version of site. Used site search tool. Used terms: 1. Inject drug	1. 0	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
<u>12 April 2016</u>	2. Vstříknout (inject) 3. Lék (drug)	2. 0 3. 19	2. 0 3. 0
Total: 0			
Czech Republic: National Institute of Public Health (NIPH) http://www.szu.cz	Explored English version of site. Used site search tool. Used terms: 1. Inject drug	1. 14	1. 0
<u>12 April 2016</u>	2. Explore publications; no new data on diseases (HIV/AIDS) since 2008	2. NA	2. 0
Total: 0			
Department of Health, England http://www.dh.gov.uk/en/index.htm	1. Explored People Who Inject Drugs section of site 2. Explored publications section	1. NA 2. NA	1. 16 2. 1
<u>12 April 2016</u>	Total: 17		
Denmark: Ministry of Health and Prevention http://www.sum.dk	Explored English version of website. Used website search tool. Used the terms: 1. injicere narkotika (inject drug)	1. 1	1. 1
<u>13 April 2016</u>	2. Searched publications section	2. NA	2. 1
Total: 2			
Denmark: Statens Serum Institute http://www.ssi.dk	Searched website using google translate. Used the terms: 1. Narkotika (drug)	1. 3	1. 0
<u>13 April 2016</u>	2. Searched publications section for term 'narkotika'	2. 0	2. 0
Total: 0			
Drug Misuse Information, Scotland www.drugmisuse.isdscotland.org	1. Explored the Drug > Data section	1. NA	1. 3
<u>13 April 2016</u>			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Total: 3			
DrugWise (formerly DrugScope UK) http://www.drugwise.org.uk/ 13 April 2016	1. Explored reports and drug sections	1. NA	1. 2
Total: 2			
Estonia: National Institute for Health Development http://www.narko.ee/ 13 April 2016	Explored site using google translate. Used website search term. Used the terms: 1. uimasti (drug) 2. statistika (statistics) 3. HIV	1. 10 2. 4 3. 8	1. 0 2. 0 3. 0
Total: 0			
European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) http://www.emcdda.europa.eu/ http://www.emcdda.europa.eu/html.cfm/index403EN.html 14 April 2016	1. Explored publications section using search term "inject drug use" after 2008 Explored links as best as possible. Majority of PDFs failed to load off of EMCDDA website so had to screen reports based solely on title and look for alternate sources for the PDFs.	1. 433	1. 160
Total: 160			
Finland: Ministry of Social Affairs and Health http://www.stm.fi/ 15 April 2016	Explored English version of website. Used website search option. Used the terms: 1. pistää lääke 2. lääke 3. Explored publications section	1. 1 2. 94 3. NA	1. 0 2. 0 3. 0
Total: 0			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
French Monitoring Centre for Drugs and Drug Addiction ("Observatoire Français des Drogues et des Toxicomanies": OFDT) http://en.ofdt.fr/publications 15 April 2016	1. Explored publications section	1. NA	1. 11
		Total: 11	
France: Institut de veille sanitaire http://www.invs.sante.fr 15 April 2016	Explored English version of site. Used website search option. Used terms: 1. Inject drug use (2008-2014) Most documents on this site are from the peer-reviewed literature.	1. 14	1. 0
		Total: 0	
Germany: Robert Koch-Institut http://www.rki.de/EN/Home/homepage_node.html 15 April 2016	Explored English version of site. Used website search option. Used terms: 1. Inject drug use 2. Explored publications section Most documents on this site are from the peer-reviewed literature.	1. 27 2. NA	1. 0 2. 0
		Total: 0	
Germany: The Federal Ministry of Health http://www.bmg.bund.de/en.html 15 April 2016	Explored English version of site. Used website search option. Used terms: 1. Inject drug use	1. 2	1. 1
		Total: 1	
Public Health England https://www.gov.uk/government/organizations/public-health-england 15 April 2016	Exploration of website showed same documents as the Department of Health, England site. Searched above on 12 April 2016. A brief search of publications for the term "people who inject drugs" was undertaken. No new documents were located.		
Health Protection Scotland http://www.hps.scot.nhs.uk	Searched website using the following terms: 1. Inject drug use	1. 0	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
	2. Drug misuse	2. 34	2. 5
<u>15 April 2016</u>	3. Search publications section	3. NA	3. 0
Total: 5			
Iceland: Directorate of Health http://www.landlaeknir.is/	Explored English version of site. Used website search option. Used terms: 1. sprauta lyfinu (inject drug)	1. 87	1. 0
<u>15 April 2016</u>			Total: 0
National Centre of Addiction Medicine Iceland http://www.saa.is	Explored English version of site. Used website search option. Used terms: 1. sprauta lyfinu (inject drug)	1. 1	1. 0
<u>15 April 2016</u>			Total: 0
Israel: Ministry of Health http://www.health.gov.il	Used google translate to explore website. Used website search. Used terms: 1. תרופה (drug)	1. 0	1. 0
<u>15 April 2016</u>			Total: 0
Italy: Istituto Superiore di Sanità http://www.iss.it	Used google translate to explore website. 1. Explored “drug” section of website.	1. NA	1. 0
<u>18 April 2016</u>			Total: 0
Life Quality Improvement Organisation (LET) Croatia http://www.udruga-let.hr	Only relevant documents were links to EMCDDA documents. No search option and all click through links for addiction were non-functional.		
<u>18 April 2016</u>			
Lithuania: Ministry of Health http://www.sam.lt/	Explored English version of site. Used website search option. Used terms: 1. inject 2. people who inject drugs	1. 7	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
<u>18 April 2016</u>		2. 4	2. 0
			Total: 0
Luxembourg: Direction de la Santé http://www.ms.etat.lu	Used google translate to explore website. 1. Searched publications	1. NA	1. 7
<u>18 April 2016</u>			Total: 7
Malta: Ministry of Social Policy http://www.sahha.gov.mt/pages.aspx	Explored website using search option. Used terms: 1. inject drug	1. 0	1. 0
<u>18 April 2016</u>			Total: 0
Ministry of Healthcare Armenia http://www.moh.am	Used google translate to explore website. Used search option with the following terms: 1. դեղ (drug)	1. 0	1. 0
<u>18 April 2016</u>			Total: 0
Ministry of Health of the Republic of Belarus (MH RB) http://www.minzdrav.by/	Used google translate to explore website. Used search option with the following terms: 1. лекарственный (drug)	1. 1	1. 0
<u>18 April 2016</u>			Total: 0
National Institute for Public Health & the Environment, Netherlands http://www.rivm.nl	Explored English version of website. Used search option with the following terms: 1. inject drug 2. Search publications for "inject drug"	1. 7 2. 42	1. 0 2. 0
<u>18 April 2016</u>			Total: 0
National Statistics Institutes in Europe http://www.stat.fi/tup/tilvir/julkaisijat_e_urooppa_tilastovirastot_en.html	A lot of publications on site are from peer-reviewed literature. Grey literature reports on the site were all pre 2008. Website provided click through options to the statistics bureaus of a number of countries. Each country link was followed and searched using the term "inject drug use":		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
	1. Albania	1. 0	1. 0
	2. Andorra	2. 0	2. 0
	3. Austria	3. 0	3. 0
	4. Belarus	4. 0	4. 0
	5. Belgium	5. 0	5. 0
	6. Bosnia and Herzegovnia	6. 1	6. 0
	7. Bulgaria	7. 0	7. 0
	8. Croatia	8. 0	8. 0
	9. Czech Republic	9. 0	9. 0
	10. Denmark	10. 0	10. 0
	11. Estonia	11. 0	11. 0
	12. Finland	12. 27	12. 0
	13. France	13. 5	13. 0
	14. Gibraltar	14. 0	14. 0
	15. Greenland	15. 0	15. 0
	16. Hungary	16. 0	16. 0
	17. Iceland	17. 1	17. 0
	18. Ireland	18. 0	18. 0
	19. Italy	19. 1	19. 0
	20. Kosovo	20. 0	20. 0
	21. Latvia	21. 0	21. 0
	22. Lithuania	22. 0	22. 0
	23. Luxembourg	23. 0	23. 0
	24. Macedonia	24. 0	24. 0
	25. Malta	25. 0	25. 0
	26. Monaco	26. 0	26. 0
	27. Moldova	27. 0	27. 0
	28. Montenegro	28. 0	28. 0
	29. Netherlands	29. 0	29. 0
	30. Norway	30. 0	30. 0
	31. Poland	31. 0	31. 0
	32. Portugal	32. 1	32. 0
	33. Romania	33. 0	33. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
	34. Russia	34. 0	34. 0
	35. San Marino	35. 0	35. 0
	36. Serbia	36. 0	36. 0
	37. Slovakia	37. 12	37. 0
	38. Slovenia	38. 2	38. 0
<u>18 April 2016</u>	39. Spain	39. 2	39. 0
	40. Sweden	40. 5	40. 0
	41. Switzerland	41. 0	41. 0
	42. Ukraine	42. 12	42. 3
	43. UK	43. 20	43. 0
	Countries listed on site but not here had broken click through links		Total: 3
Netherlands: Ministry of Health, Welfare and Sport http://english.minvws.nl/en/	Explored site using google translate option. Used search terms: 1. injecteert drugs	1. 2	1. 1
<u>19 April 2016</u>			Total: 1
Nordic Centre for Alcohol and Drug Research http://www.nad.fi/index.php?lang=en&id=publications	Explored site using google advance search using the following search terms: 1. pistää lääke (inject drug) 2. inject drug	1. 0 2. 0	1. 0 2. 0
<u>19 April 2016</u>	Explored publications section, nothing relevant found.		Total: 0
Norway: Directorate of Health http://www.shdir.no/	Link not functional.		
<u>19 April 2016</u>			
Norwegian Institute of Public Health (NIPH) http://www.fhi.no	Explored site using google translate option. Used search terms: 1. injisere narkotika	1. 39	1. 0
<u>19 April 2016</u>			Total: 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Poland: National Institute of Public Health, National Institute of Hygiene http://www.pzh.gov.pl/en/ 19 April 2016	Explored site using google advance search using the following search terms: 1. inject drug 2. wstrzyknąć lek (inject drug)	1. 0 2. 0	1. 0 2. 0 Total: 0
Russian Federation: Ministry of Health and Social Development http://www.mednet.ru/en.html 19 April 2016	Explored site using google advance search using the following search terms: 1. inject drug 2. вводят препарат (inject drug)	1. 1 2. 1	1. 0 2. 0 Total: 0
Norwegian Institute for Public Health https://www.cristin.no/as/WebObjects/cristin.woa/2/wa/fres?erNordisk=1&erUkjen=1&inst=7499&visParametre=1&action=sok&erNasjonalt=1&la=en&hkat=TIDSSKRIFTPUBL&hkat=FOREDRAG&hkat=BOK&hkat=RAPPORT&hkat=BOKRAPPORTDEL&hkat=OVERSETTELSE&hkat=MEDIE&hkat=KOMMERSIALISERING&hkat=UTSTILLING&hkat=KUNST_PRODUKSJON&hkat=PRODUKT&hkat=INFORMASJONSMATR&erInternasjonalt=1&arfra=2000&erNorsk=1&sort=ar&bs=50 19 April 2016	Tried to work search option, tried "inject drug," "drug," and "inject." Search results indicated that there were no results, but this seems unlikely. Assuming the search feature is presently broken.		
Slovenia: Ministrstvo za zdravje http://www.mz.gov.si/ 20 April 2016	Explored English version of website. Used search terms: 1. inject drug 2. injicirati zdravilo (inject drug)	1. 2 2. 0	1. 1 2. 0 Total: 1
Slovakia: Ministerstvo zdravotníctva	Explored English version of website. Used search terms:		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.health.gov.sk/Index.aspx 20 April 2016	1. inject drug 2. aplikovať drogu (inject drug)	1. 9 2. 9	1. 0 2. 0
Total: 0			
Spain: Instituto de Salud Carlos III http://www.isciii.es 20 April 2016	Explored English version of website. Used search terms: 1. inject drug 2. inyectarse drogas	1. 0 2. 0	1. 0 2. 0
Total: 0			
Sweden: Ministry of Health and Social Affairs http://www.government.se/government-of-sweden/ministry-of-health-and-social-affairs/ 20 April 2016	Explored site using search option. Used the terms: 1. inject drug 2. drug	1. 0 2. 33	1. 0 2. 0
Total: 0			
Switzerland: Federal Office of Public Health (FOPH) http://www.bag.admin.ch/index.html?lang=en 20 April 2016	Used google advanced search option. Used terms: 1. inject drug use 2. Explored 'drug' section of website	1. 0 2. NA	1. 0 2. 1
Total: 1			
Turkey: Ministry of Health http://www.saglik.gov.tr 20 April 2016	Used google advanced search option. Used terms: 1. ilaç enjekte 2. inject drug	1. 0 2. 0	1. 0 2. 0
Total: 0			
African Development Bank Group (African Development Bank, The African Development Fund and The Nigeria Trust Fund) http://www.afdb.org/en/	Used google advanced search option. Used terms: 1. inject drug 2. Drug addiction	1. 11 2. 3	1. 1 2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
21 April 2016	Explored publications and annual reports section. Found nothing relevant to injecting drug users.		Total: 1
AIDS Foundation South Africa http://www.aids.org.za/index.htm	Used google advanced search option. Used terms: 1. inject drug 2. inject 3. drug 4. needle	1. 1 2. 1 3. 5 4. 0	1. 0 2. 0 3. 0 4. 0
21 April 2016	Explored publications and annual reports section. Found nothing relevant to injecting drug users.		Total: 0
Egypt: Ministry of Health and Population http://www.mohp.gov.eg/	Used google advanced search option. Used terms: 1. عقار (drug) 2. إدمان (addiction)	1. 23 2. 0	1. 0 2. 0
21 April 2016			Total: 0
Mauritius: Ministry of Health and Quality of Life http://health.govmu.org/English/the-ministry/Pages/default.aspx	Used google advanced search option. Used terms: 1. Inject drug 2. Drug 3. Drug abuse 4. Explored publications section	1. 0 2. 16 3. 5 4. NA	1. 0 2. 0 3. 0 4. 4
21 April 2016			Total: 4
Mauritius National Agency For The Treatment And Rehabilitation of Substance Abusers (NATRESA) http://natresa.govmu.org/English/Pages/default.aspx	Used google advanced search option. Used terms: 1. Inject drug 2. Inject 3. Explored statistics section	1. 0 2. 4 3. NA	1. 0 2. 0 3. 2
21 April 2016			Total: 2

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
National Statistical Institutes in Africa http://www.stat.fi/tup/tilvir/julkaisijat_afrikka_tilastovirastot_en.html	Website provided click through options to the statistics bureaus of a number of countries. Each country link was followed and searched using the term “drug” (or appropriate language equivalent):		
	1. Algeria	1. 0	1. 0
	2. Benin	2. 1	2. 0
	3. Botswana	3. 0	3. 0
	4. Burkina Faso	4. 4	4. 0
	5. Cameroon	5. 0	5. 0
	6. Cape Verde	6. 1	6. 1
	7. Central African Republic	7. 0	7. 0
	8. Congo	8. 0	8. 0
	9. Cote d’Ivoire	9. 4	9. 1
	10. Djibouti	10. 4	10. 0
	11. Egypt	11. 0	11. 0
	12. Equatorial Guinea	12. 0	12. 0
	13. Gabon	13. 0	13. 0
	14. Gambia	14. 0	14. 0
	15. Ghana	15. 0	15. 0
	16. Guinea	16. 2	16. 0
	17. Guinea-Bissau	17. 3	17. 0
	18. Kenya	18. 37	18. 0
	19. Lesotho	19. 8	19. 0
	20. Liberia	20. 1	20. 1
	21. Malawi	21. 0	21. 0
	22. Mali	22. 0	22. 0
	23. Mauritania	23. 0	23. 0
	24. Mauritius	24. 0	24. 0
	25. Morocco	25. 33	25. 1
	26. Mozambique	26. 4	26. 0
	27. Namibia	27. 0	27. 0
	28. Niger	28. 4	28. 0
	29. Nigeria	29. 15	29. 0
	30. Rwanda	30. 3	30. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
22 April 2016	31. São Tomé and Príncipe	31. 0	31. 0
	32. Seychelles	32. 0	32. 0
	33. Senegal	33. 23	33. 2
	34. South Africa	34. 0	34. 0
	35. Sudan	35. 1	35. 0
	36. Swaziland	36. 9	36. 0
	37. Tanzania	37. 1	37. 1
	38. Togo	38. 13	38. 2
	39. Tunisia	39. 0	39. 0
	40. Uganda (narrowed search to "inject drug")	40. 7	40. 0
	41. Zambia (narrowed search to "inject drug")	41. 5	41. 0
	42. Zimbabwe	42. 7	42. 0
	Total: 9		
Nicaragua: Ministerio de Salud http://www.minsa.gob.ni/	Used google translate and advanced search to explore website. Used the terms: 1. Droga (drug) Most links from this search were broken	1. 8	1. 0
23 April 2016	Total: 0		
South African Ministries of Health http://www.doh.gov.za	Explored health statistics section, found nothing relevant. Used google advanced search to explore website. Used the following terms: 1. Inject drug 2. Drug 3. Explored documentation > HIV	1. 0 2. 12 3. NA	1. 0 2. 0 3. 0
23 April 2016	Total: 0		
South African Community Epidemiology Network on Drug Use (SACENDU) http://www.mrc.ac.za/adarg/sacendu.htm	No search option on site and google advanced search only brought up the single link back to the pages main site. 1. Browsed publications, technical report section	1. NA	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
<u>23 April 2016</u>			
		Total: 0	
Sudan: Ministry of Health http://www.fmoh.gov.sd/	Used google translate and advanced search to explore website. Used the terms:		
	1. Inject drug	1. 2	1. 0
	2. عقار (drug)	2. 2	2. 0
<u>23 April 2016</u>		Total: 0	
National Statistics Institutes in the Americas http://www.stat.fi/tup/tilvir/julkaisijat_a_merikka_tilastovirastot_en.html	Website provided click through options to the statistics bureaus of a number of countries. Each country link was followed and searched using the term “drug” (or appropriate language equivalent):		
	1. Anguilla	1. 0	1. 0
	2. Argentina	2. 0	2. 0
	3. Aruba	3. 0	3. 0
	4. Bahamas	4. 0	4. 0
	5. Barbados	5. 0	5. 0
	6. Belize	6. 0	6. 0
	7. Bermuda	7. 66	7. 0
	8. Bolivia	8. 0	8. 0
	9. Brazil	9. 0	9. 0
	10. Virgin Islands	10. 0	10. 0
	11. Canada	11. 70	11. 0
	12. Chile	12. 48	12. 0
	13. Colombia (search narrowed to “inyectar droga”)	13. 18	13. 0
	14. Costa Rica (search narrowed to “inyectar droga”)	14. 5	14. 0
	15. Cuba	15. 0	15. 0
	16. Dominican Republic	16. 4	16. 0
	17. Ecuador	17. 0	17. 0
	18. El Salvador	18. 11	18. 0
	19. Greenland	19. 2	19. 0
	20. Haiti	20. 3	20. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
<u>26 April 2016</u>	21. Mexico (search narrowed to "inyectar droga")	21. 16	21. 0
	22. Nicaragua	22. 4	22. 0
	23. Panama	23. 27	23. 0
	24. Paraguay	24. 15	24. 1
	25. Peru (search narrowed to "inyectar droga")	25. 45	25. 0
	26. Puerto Rico	26. 0	26. 0
	27. Suriname	27. 2	27. 0
	28. Trinidad and Tobago	28. 0	28. 0
	29. Uruguay	29. 6	29. 0
	30. Venezuela	30. 3	30. 0
		Total: 1	
<u>27 April 2016</u>	Honduras: Secretaria de Salud http://www.salud.gob.hn	Used google translate and advanced search to explore website. Used the terms:	
	1. Droga (drug)	1. 5	1. 0
	2. HIV	2. 14	2. 0
		Total: 0	
<u>27 April 2016</u>	Inter-American Drug Abuse Control Commission (CICAD) http://www.cicad.oas.org/Main/default_ENG.asp	Used google advanced search to explore website. Used the terms:	
	1. Inject drug	1. 0	1. 0
	2. HIV	2. 0	2. 0
	3. Hepatitis	3. 0	3. 0
	4. Explored publications and annual reports section	4. NA	4. 0
		Total: 0	
<u>27 April 2016</u>	Inter-American Observatory on Drugs http://www.cicad.oas.org/OID/ http://www.oas.org/en/information_center/publications.asp	Links to website above.	
	Explored 'drug data indicators per country section' section. Looked through each country listed. Drug data not supplied for typical drugs of injection (heroin, methamphetamine etc.) No data on injecting drug use.		
		Total: 0	

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Panama: Ministerio de Salud http://www.minsa.gob.pa/	Used google translate and advanced search to explore website. Used the terms:		
	1. Inyectar droga + HIV (inject drug + HIV)	1. 5	1. 0
	2. Inyectar droga + hepatitis (inject drug + hepatitis)	2. 28	2. 0
	3. Explored indicators and statistics sections	3. NA	3. 0
27 April 2016			Total: 0
Paraguay: Ministerio de Salud Pública y Bienestar Social http://www.mspbs.gov.py/	Used google translate and advanced search to explore website. Used the terms:		
	1. Inyectar droga	1. 36	1. 0
	2. Explored epidemiological bulletins and documentation	2. NA	2. 1
27 April 2016			Total: 1
Uruguay: Ministerio de Salud Pública http://www.msp.gub.uy/	Used google translate and advanced search to explore website. Used the terms:		
	1. Inyectar droga	1. 18	1. 0
29 April 2016	Attempted to explore publications section, but all relevant options were empty (STI, epidemiology)		Total: 0
CDC Behavioural Risk Factor Surveillance System (BRFSS) http://www.cdc.gov/brfss/	No information on illicit drug use.		
29 April 2016			
Bureau of Justice Statistics www.bjs.gov	All drug and BBV statistics relate only to prison populations. No general population data.		
29 April 2016			
CDC Centers for Disease Control and Prevention (US) http://www.cdc.gov/	1. Explored “people who inject drugs and viral hepatitis” section	1. NA	1. 7
	2. Explored “HIV and people who inject drugs” section	2. NA	2. 7

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
29 April 2016			
		Total: 14	
Canadian Centre on Substance Abuse (CCSA) http://www.ccsa.ca/Pages/default.aspx	1. Searched in publications for “inject drug”	1. 17	1. 2
	2. Searched in publications for “hepatitis”	2. 30	2. 0
	3. Searched in publications for “HIV”	3. 49	3. 0
2 May 2016			
		Total: 2	
Canadian Community Epidemiology Network on Drug Use (CCENDU) http://www.ccsa.ca/Eng/collaboration/CCENDU/Pages/default.aspx	Links to CCSA website above. Searches from CCSA search included CENDU reports. Nothing new to explore.		
2 May 2016			
Community Epidemiology Work Group (CEWG) (part of the National Institute on Drug Abuse - NIDA) - now National Drug Early Warning System (NDEWS) https://www.drugabuse.gov/related-topics/trends-statistics/national-drug-early-warning-system-ndews	1. Explored trends and statistics section of publications	1. 6	1. 0
	2. Explored HIV or AIDS section of publications	2. 2	2. 0
	Searched through abstract database with the term “injecting” for years		
	3. 2009	3. 4	3. 3
	4. 2010	4. 2	4. 0
	5. 2011	5. 8	5. 4
	6. 2012	6. 1	6. 0
	7. 2013	7. 1	7. 0
	8. 2014	8. 2	8. 0
	9. 2015	9. 2	9. 0
10. 2016	10. 0	10. 0	
2 May 2016			
		Total: 7	
DAWN: Drug Abuse Warning Network (US) http://www.samhsa.gov/data/	Explored data section of website. Explored the following sections:		
2 May 2016	1. Heroin	1. NA	1. 0
	2. Injecting drug use	2. NA	2. 0
	3. Infectious disease	3. NA	3. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
	Report mentions of injecting drug use focus on whether the participant ever has injected, not whether they are an IDU.		Total: 0
Monitoring the Future http://monitoringthefuture.org/ 2 May 2016	1. Explored monographs and reports section	1. NA	1. 0
	Report mentions of injecting drug use focus on whether the participant ever has injected, not whether they are an IDU.		Total: 0
National Centre on addiction and Substance Abuse at Columbia University (CASA) http://www.centeronaddiction.org/ 2 May 2016	Explored website using google advanced search. Used term: 1. Inject drug	1. 10	1. 0
	2. Explored reports on "illegal drug addiction"	2. 21	2. 0
			Total: 0
National Centre for Health Statistics (NCHS) http://www.cdc.gov/nchs/fastats/drug-use-illegal.htm 3 May 2016	1. Explored illegal drug use section	1. NA	1. 0
	All data refers to "illegal" drug use. No mention of what drug or method of use.		Total: 0
Office of National Drug Control Policy (ONDCP) https://www.whitehouse.gov/ondcp 3 May 2016	Used google advanced search option. Used the term: 1. Injecting drug use	1. 5	1. 0
	1. Explored policy and research section	2. NA	2. 0
	Data sets indicate which drug is concerned, but not method of use.		Total: 0
Public Health Agency of Canada http://www.phac-aspc.gc.ca/index-eng.php?utm_source=VanityURL&utm_medium=URL&utm_campaign=publichealth.gc.ca	1. Explored publications on "diseases and conditions"	1. NA	1. 3

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
3 May 2016			
Total: 3			
SAMHSA (United States Substance Abuse and Mental Health Administration) http://store.samhsa.gov/home http://www.samhsa.gov/data/node/20	Same database searched above on May 3 for the DAWN Drug Abuse Warning Network (US) search.		
3 May 2016			
HIV and harm reduction organisations			
AVERT http://www.avert.org/professionals/hiv-around-world/global-statistics	1. Explored "fact sheets" section	1. NA	1. 0
	2. Explored "people who inject drugs" section	2. NA	2. 0
	3. Explored "needle and syringe programs" section	3. NA	3. 0
All information is sourced from UNODC/WHO etc. These documents are collected directly from these websites for the purpose of this literature search. See UNODC, WHO search entry for these documents.			
4 May 2016			
Total: 0			
FHI360 http://www.fhi360.org/	1. Explored annual reports	1. NA	1. 0
	2. Searched for "injecting drug use prevalence, resource, publication, 2009-2016"	2. 106	2. 13
	3. Search for "injecting drug use biological behavioral survey, 2009-2016, publication"	3. 67	3. 0
4 May 2016			
Total: 13			
Global Network of People Living with HIV/AIDS http://www.gnpplus.net/	Used google advanced search. Used term:		
	1. Injecting drug use	1. 10	1. 2
	2. Inject drug	2. 19	2. 0
4 May 2016	3. Explored publications section	3. NA	3. 0
	Total: 2		
HIV in the Arab World http://arabhiv.blogspot.com/	Used google translate to explore website. Used search term:		
	1. عقار (drug)	1. 1	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
4 May 2016			Total: 0
HIV InSite http://hivinsite.ucsf.edu/InSite	All IDU indicator data provided is sourced from UNAIDS. All other resources found are from the peer-reviewed literature.		
4 May 2016			
Human Rights Watch www.HRW.org	Used google advanced search. Used terms: 1. "injecting drug use AND prevalence, year: 2009-2016, type: reports, topic: health"	1. 124	1. 2
4 May 2016			Total: 2
International AIDS Society Conference Proceedings http://www.iasociety.org/	1. Explored abstract archive by search "injecting drug use AND HIV" filtered 2009-present.	1. 16	1. 3
	2. Explored abstract archive by search "injecting drug use AND hepatitis" filtered 2009-present.	2. 0	2. 0
6 May 2016	3. Explored abstract archive by search "injecting drug use" filtered 2009-present. Further filtered titles to contain "injecting drug user"	3. 126	3. 16
			Total: 19
Harm Reduction International http://www.ihra.net/	1. Explored resource library using term "injecting drug use" and filtered results by year: 2008-present	1. 222	1. 4
6 May 2016			Total: 4
Sistema de Vigilancia Epidemiológica de las Adicciones, Mexico http://www.salud.df.gob.mx/portal/index.php/programas-y-acciones/10-ssp/56-sistema-de-vigilancia-epidemiologica-de-las-adicciones-sisvea	<u>Used google translate and google advanced search to explore website. Used terms:</u> 1. <u>inyectar droga (inject drug)</u>	1. 13	1. 0
	2. <u>Explored SISVEA (epidemiological surveillance study) section of website</u>	2. NA	2. 0
6 May 2016	<u>SISVEA looks only at illicit drug use, no mention of whether survey participants are injecting, smoking, etc.</u>		Total: 0
The Global Fund to fight AIDS, Tuberculosis and Malaria (GFATM) http://www.theglobalfund.org/en/	Used google advanced search. Used terms: 1. Inject drug	1. 8 2. 7	1. 0 2. 6

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
6 May 2016	2. grant AND performance AND report AND grant AND performance AND report AND "Percentage of people who inject drugs who are living with HIV" 3. grant AND performance AND report AND "number of people who inject drugs" 4. Explored publications/reports section 5. Explored data section	3. 2 4. NA 5. NA	3. 1 4. 4 5. 0 Total: 11
UNAIDS http://www.unaids.org/en/	Took reports only as UNAIDS country report data extraction is taken elsewhere.	1. NA	1. 4
7 May 2016			Total: 4
United Nations Development Programme (UNDP) http://www.undp.org/	1. Used search term "injecting drug user" AND prevalence 2. Searched in publications and reports for "injecting drug user"	1. 154 2. 1	1. 7 2. 0 Total: 7
9 May 2016			
United Nations Population Fund (UNFPA) http://www.unfpa.org/	Used google advance search. Used terms" 1. "inject drug user"	1. 21	1. 0
9 May 2016	2. Searched publications for "inject"	2. 7	2. 1
			Total: 1
Armenia: National Centre for AIDS Prevention http://www.arm aids.am/main/index.php	Explored English version of website and google advanced search. Used term: 1. Inject drug 2. Explored statistics section	1. 3 2. NA	1. 0 2. 1 Total: 1
9 May 2016			
Asian Development Bank	Explored website using google advanced search. Used terms:		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.adb.org/ 9 May 2016	1. Inject drug 2. Drug 3. Explored publications and statistics	1. 0 2. 40 3. NA	1. 0 2. 1 3. 0 Total: 1
Asia Foundation http://asiafoundation.org/ 9 May 2016	Explored site using google advanced search. Used terms: 1. Inject drug 2. Drug AND prevalence 3. Explored publications	1. 2 2. 38 3. NA	1. 0 2. 0 3. 0 Total: 0
Asian Harm Reduction Network http://idpc.net/profile/asian-harm-reduction-network-ahrn 9 May 2016	Explored site using google advanced search. Used terms: 1. "Injecting drug user" 2. Explored publications using search term: injecting drug user	1. 12 2. 77	1. 1 2. 5 Total: 6
Cambodia National AIDS Authority http://www.naa.org.kh/ 10 May 2016	Explored website using google translate and google advanced search. Used term: 1. Inject drug 2. Explored publications	1. 0 2. 3	1. 0 2. 0 Total: 0
China AIDS Info http://www.china.org.cn/english/features/aids/112999.htm 10 May 2016	Explored English version of website. Used search term: 1. Inject 2. Drug 3. Explored statistics section – statistics all pre 2008	1. 1 2. 1 3. NA	1. 0 2. 0 3. 0 Total: 0
HIV/AIDS Asia Regional Program (HAARP)			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://dfat.gov.au/about-us/publications/Pages/hiv-aids-asia-regional-program-outcomes-and-dfat-lessons-assessment-reports.aspx	1. Explored HAARP assessment reports	1. NA	1. 6
10 May 2016			Total: 6
India: National AIDS Control Organisation http://naco.gov.in/NACO/	Explored website using google advanced search. Used term		
	1. Inject drug	1. 5	1. 0
10 May 2016	2. Explored publications and statistics	2. NA	2. 8
			Total: 8
Indonesia: National AIDS Commission http://www.aidsindonesia.or.id	Explored website using google translate and google advanced search. Used terms:		
	1. Drug	1. 10	1. 0
10 May 2016	2. Menyuntikkan (inject)	2. 0	2. 0
	3. Explored reports section. Reports in Indonesia. Downloaded and searched within reports for “obat” (drug), “menyuntikkan” (inject). Found no mention of these words in relation to IDU.	3. NA	3. 0
			Total: 0
Korsang – Cambodia http://www.korsang-ks.org/website/	Explored website using google advanced search. Used term:		
	1. Inject drug	1. 0	1. 0
10 May 2016	2. PWID	2. 6	2. 0
			Total: 0
National Center for AIDS/STD Control and Prevention, CDC China (NCAIDS) http://www.chinaaids.cn/english/aboutnc aids/	Attempted to search website using google advanced search. Searches led to blocked links. Click through links all block on publications section.		
10 May 2016			
Nepal: National Center for AIDS and STD Control	Explored website using google advanced search. Used term:		
	1. Inject drug	1. 40	1. 6

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.ncasc.gov.np			
10 May 2016			Total: 6
Philippine National AIDS Council http://www2.doh.gov.ph/pnacwebsite/index.htm	Link broken. Unable to find site for this organisation through google search.		
10 May 2016			
AIDS Society of the Philippines http://www.aidsphil.org/about/	Explored website using google advanced search. Used term:		
	1. Inject drug	1. 1	1. 0
	2. Explored publications	2. NA	2. 1
	3. Explored programs of annual meetings	3. NA	3. 0
10 May 2016			Total: 1
Thai Office of the Narcotics Control Board (ONCB) http://www.oncb.go.th/	Google Chrome indicated potential malicious software on attempt to enter site. Site not further attempted for entry.		
11 May 2016			
Caribbean Harm Reduction Coalition (CHRC) www.caribbeanharmreductioncoalition.htlplanet.com	Used google advanced search to explore website. Used term:		
	1. Inject drug	1. 1	1. 0
11 May 2016			Total: 0
Cuba Centro Nacional de Prevención ITS/VIH/SIDA http://www.sld.cu/servicios/sida/	Explored website using google translate and google advanced search. Used term:		
	1. Inyectar droga (inject drug)	1. 4	1. 0
	2. Explored publications, "drug use in Cuba"	2. NA	2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
11 May 2016	3. Explored “key populations”	3. NA	3. 0
			Total: 0
Dominican Republic: Consejo Presidencial del SIDA http://www.conavihsida.gob.do/	Explored website using google translate and google advanced search. Used term:		
	1. Inyectar droga (inject drug)	1. 0	1. 0
	2. publicaciones droga (publications drug)	2. 4	2. 0
11 May 2016			Total: 0
	Publications and statistics sections empty.		
Jamaica: National AIDS Committee http://www.nacjamaica.org/	Used google advanced search to explore website. Used term:		
	1. Inject drug	1. 0	1. 0
	2. Drug	2. 0	2. 0
11 May 2016			Total: 0
	Attempted to explore publications and presentations sections but most links broken.		
Correlation - European Network of Social Inclusion and Health http://www.correlation-net.org	Used google advanced search to explore website. Used term:		
	1. Inject drug prevalence	1. 18	1. 0
	2. Explored publications section – all links to WHO and EMCDDA		
11 May 2016			Total: 0
Eurasian Harm Reduction Network http://www.harm-reduction.org	1. Explored drug use and HIV/HCV sections of website	1. NA	1. 3
11 May 2016	2. Explored reports	2. NA	2. 3
			Total: 6
France: Conseil national du sida http://www.cns.sante.fr/	1. Searched documents for “drogues” (drug). Most documents pre 2008.	1. 10	1. 0
11 May 2016			Total: 0
Georgia: AIDS & Clinical Immunology Research Centre http://aidscenter.ge/index_eng.html	1. Explored publications section. Documents are information for public rather than statistics.	1. NA	1. 0
		2. 17	2. 5

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
12 May 2016	2. Used google translate and google advanced search to search for “ნარკოტიკების” (drugs)		Total: 5
Ireland: Health Protection Surveillance Centre http://www.hpsc.ie/	1. Searched through publications for "epi-insight" AND "injecting drug users" AND prevalence. (epi-insight is a monthly publication by the organisation).	1. 61	1. 0
12 May 2016	Some surveillance data on site but all pre 2008.		Total: 0
Lithuania: AIDS Centre http://www.ulac.lt/en	Used google advanced search to explore website. Used terms:		
	1. Inject drug	1. 0	1. 0
	2. drug	2. 25	2. 0
12 May 2016			Total: 0
Poland: National AIDS Centre http://aids.gov.pl/	Used google advanced search to explore website. Used terms:		
	1. Inject drug	1. 9	1. 0
	Epidemiology section provides information on transmission via IDU only.		
12 May 2016			Total: 0
Portugal: Fundacao Portuguesa A Comunidade Contra a SIDA http://www.fpccsida.org.pt/	Used google advanced search to explore website. Used terms:		
	1. Droga (drug)	1. 12	1. 0
12 May 2016			Total: 0
Republic of Moldova: National Coordination Council on HIV/AIDS and TB http://www.ccm.md/ro/stirile	Used google translate and advanced search to explore website. Used terms:		
	1. Injectarea (injecting)	1. 1	1. 0
	2. Droguri (drugs)	2. 60	2. 2
13 May 2016			Total: 2
Romania: Comisia Nationala de Lupta Anti-SIDA http://www.cnlas.ro/	Used google translate to explore site.		
	1. Explored statistical data section	1. NA	1. 3
13 May 2016			Total: 3
Romania: Centrul Roman HIV SIDA	Used google translate and google advanced to explore site. Used term:		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
(Romanian HIV/AIDS center) http://hivromania.ro/www/ 13 May 2016	1. Droguri (drug) 2. Explored resources and articles section	1. 9 2. NA	1. 0 2. 0 Total: 0
The UK Harm Reduction Alliance (UKHRA) www.ukhra.org 13 May 2016	Used google advanced search. Used terms: 1. "injecting drug user" 2. Inject drug	1. 2 2. 19	1. 0 2. 0 Total: 0
Ukraine: Ministry of Health Committee on HIV/AIDS http://www.moz.gov.ua/ua/portal/ 13 May 2016	Used google translate and google advanced search to explore website. Used terms: 1. Лекарственный (drug)	1. 8	1. 0 Total: 0
Brazil: Programa Nacional de DST e Aids http://www.aids.gov.br 13 May 2016	Explored English version of website. Used search term: 1. Inject drug 2. Explored data, studies, research and epidemiological bulletin	1. 2 2. NA	1. 1 2. 0 Total: 1
Canadian Harm Reduction Network http://www.canadianharmreduction.com/ 13 May 2016	Used google advanced search. Used terms: 1. Inject drug 2. "injecting drug user" AND hepatitis 3. "injecting drug use" AND HIV Most linked documents are from the peer-reviewed literature.	1. 39 2. 19 3. 12	1. 1 2. 0 3. 0 Total: 1
Canadian HIV/AIDS Legal Network http://www.aidslaw.ca/site/ 13 May 2016	Used google advanced search. Used terms: 1. "injecting drug user" AND hepatitis AND prevalence 2. "injecting drug use" AND HIV AND prevalence	1. 113 2. 127	1. 3 2. 1 Total: 4

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Consejo Nacional de Atención Integral al VIH-SIDA http://www.conasida.go.cr/ 13 May 2016	Used google translate and google advanced search to explore website. Used terms: 1. Droga 2. Explored national documents section	1. 4 2. NA	1. 0 2. 0 Total: 0
Ecuador: Programa Nacional del VIH SIDA http://www.salud.gob.ec/programa-nacional-de-prevencion-y-control-de-vihsida-its/ 13 May 2016	Used google translate and google advanced search to explore website. Used terms: 1. Droga 2. Explored publications and articles section	1. 0 2. NA	1. 0 2. 0 Total: 0
The Harm Reduction Coalition (HRC) www.harmreduction.org 17 May 2016	Used google advanced search. Used terms: 1. HIV AND prevalence 2. Hepatitis AND prevalence	1. 5 2. 2	1. 0 2. 0 Total: 0
Nicaragua: Ministerio de Salud http://www.minsa.gob.ni/ 17 May 2016	Used google translate and google advanced search to explore website. Used terms: 1. Droga (drug)	1. 7	1. 0 Total: 0
Cote d'Ivoire Ministère de lutte contre le SIDA http://www.mlsida.gouv.ci/ 17 May 2016	Many links on site broken. Used google translate and google advanced search to explore website. Used terms: 1. Drogues (drug)	1. 18	1. 0 Total: 0
Ghana AIDS Commission http://ghanaid.gov.gh/gac1/aids_info.php	Used google advanced search. Used terms: 1. Inject drug	1. 3	1. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
17 May 2016	Explored publications, attempted to refine search by “most at risk populations” but link broken. Nothing relevant found.		Total: 0
Malawi: National AIDS Commission http://www.aidsmalawi.org.mw/	Used google advanced search. Used terms: 1. Inject drug	1. 2	1. 0
17 May 2016	Attempted to explore research database section, but required a login.		Total: 0
National AIDS Control Council Kenya http://www.nacc.or.ke	Used google advanced search. Used terms: 1. Inject drug	1. 10	1. 0
17 May 2016	2. Explored publications	2. NA	2. 2
			Total: 2
National AIDS Council Zimbabwe http://www.nac.org.zw/	Used google advanced search. Used terms: 1. Inject drug	1. 15	1. 1
	2. Explored documents and research section	2. NA	2. 0
			Total: 1
Nigeria: National Agency for the Control of HIV/AIDS http://www.naca.gov.ng/	Used google advanced search. Used terms: 1. Inject drug	1. 1	1. 0
18 May 2016	2. Explored publications	2. NA	2. 2
			Total: 2
South African National AIDS Council http://www.sanac.org.za/	Used google advanced search. Used terms: 1. Inject drug – one report looked relevant but link was broken and unable to locate on site with further searching	1. 3	1. 0
18 May 2016	2. Explored HIV statistics, reports and global fund sections	2. NA	2. 3
			Total: 3
Uganda: AIDS Commission	Used website search option. Used terms:		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.aidsuganda.org/	1. inject drug	1. 8	1. 0
18 May 2016	2. Explored indicators and downloads section	2. NA	2. 0
			Total: 0
United Republic of Tanzania: Tanzania Commission for AIDS	Used website search option. Used terms:		
http://www.tacaids.go.tz/	1. inject drug	1. 0	1. 0
18 May 2016	Explored reports section but found nothing relevant.		
			Total: 0
	Viral Hepatitis Databases/Organisations		
World Hepatitis Alliance	Used website search option. Used search term:		
http://www.worldhepatitisalliance.org/en/viral-hepatitis	1. inject drug	1. 3	1. 0
19 May 2016	Explored annual reports and country specific reports but found no mention of injecting drug users.		Total: 0
The Kirby Institute	1. Explored annual surveillance reports and supplementaries	1. NA	1. 12
http://kirby.unsw.edu.au/			
19 May 2016			Total: 12
British Liver Trust	Used website search option. Used search term:		
http://www.britishlivertrust.org.uk/	1. injecting drug use	1. 8	1. 0
19 May 2016	Explored research and publications but found no relevant mentions of injecting drug users.		Total: 0
European Centre for Disease Prevention and Control	Used google advanced search. Used terms:		
http://ecdc.europa.eu/en/healthtopics/hepatitis_C/Pages/index.aspx	1. Inject drug	1. 2	1. 0
	2. Explored data and publications sections	2. NA	2. 1
19 May 2016	Most data on IDU and HCV/HBsAg concerned transmission rather than %age of population.		Total: 1

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Hepatitis C initiative http://www.hepatitis-c-initiative.eu/ 20 May 2016	Used google advanced search. Used terms: 1. Inject drug Explored resources section, but all provided documents were from the peer reviewed literature.	1. 19	1. 0 Total: 0
Asian Liver Center http://liver.stanford.edu/ 20 May 2016	Used google advanced search. Used terms: 1. Inject drug Explored publications and research section but all links were to peer reviewed literature.	1. 10	1. 0 Total: 0
GreyNet – Grey Literature Network Service http://www.greynet.org/ 24 May 2016	Other Sources Attempted to use google advanced search to locate documents, but no results for “drug” or “inject.” Could not locate a search option on the site for resources. Appears to be only for information on grey literature as a resource type.		
Guide to Drug Abuse Epidemiology, 2000 http://whqlibdoc.who.int/hq/2000/a58352_PartA.pdf http://whqlibdoc.who.int/hq/2000/a58352_PartB.pdf http://whqlibdoc.who.int/hq/2000/a58352_PartC.pdf 24 May 2016	Technical guide – no other resources.		
Health On the Net Foundation (HON) http://www.hon.ch/ 24 May 2016	Attempted google advanced search. Appears to link through to a simple google search. Tried terms: 1. “injecting drug user” AND prevalence 2. “injecting drug user” AND HIV 3. “injecting drug user” AND hepatitis All searches turned up 10,000+ results. Brief examination of the first few pages of each showed all peer-reviewed literature sources.		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
MEASURE DHS http://dhsprogram.com/ http://dhsprogram.com/topics/HIV-Corner/index.cfm	Used google advanced search. Used the terms: 1. "injecting drug user" 2. "drug user" 3. Inject drug use	4. 1 5. 5 6. 27	1. 1 2. 0 3. 0
24 May 2016			Total: 1
AIDS Portal http://www.aidsportal.org/web/guest/home	Link provided in technical report not working. Google search found the following website: http://aidszeroportal.org/ . Unsure if this is the new website as it appears to be a Thai organisation. Explored the zero portal.		
24 May 2016			
	HIV Databases		
AIDS Action Europe Clearinghouse www.hivaidsclearinghouse.eu	1. Searched within publications for "injecting drug users" 2. Searched within publications for "people who use drugs"	1. 33 2. 15	1. 0 2. 2
25 May 2016			Total: 2
AIDS Knowledge Hub http://www.aidsknowledgehub.org/	1. Google advanced search: "injecting drug user" 2. Searched through newsletters for mention of "injecting drug use"	1. 45 2. 10	1. 0 2. 0
25 May 2016	Publications section empty and links to partner sites for publications lead to 404.		Total: 0
Evidence to Action – HIV and AIDS Data Hub for Asia-Pacific http://www.aidsdatahub.org/	1. Explored publications by: population: PWID, year: 2008-2016	1. 91	1. 32
25 May 2016			Total: 32
Virtual AIDS Office (VAO) of Hong Kong http://www.info.gov.hk/aids/english/index.htm	1. Explored surveillance reports 2. Explored site using "injecting drug user" AND prevalence	1. NA 2. 201	1. 6 2. 0
25 May 2016			Total: 6
hivpolicy.org http://www.hivpolicy.org/	Explored "countries" section. Went through reports page for each country. 1. Afghanistan		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
	2. American Samoa	1. NA	1. 1
	3. Bangladesh	2. NA	2. 0
	4. Bhutan	3. NA	3. 1
	5. Brunei	4. NA	4. 0
	6. Cambodia	5. NA	5. 0
	7. China	6. NA	6. 0
	8. Northern Mariana Islands	7. NA	7. 0
	9. Cook Islands	8. NA	8. 0
	10. Korea	9. NA	9. 0
	11. East Timor	10. NA	10. 0
	12. Sri Lanka	11. NA	11. 0
	13. Micronesia	12. NA	12. 0
	14. Fiji	13. NA	13. 0
	15. French Polynesia	14. NA	14. 0
	16. Guam	15. NA	15. 0
	17. Hong Kong	16. NA	16. 0
	18. Papua New Guinea	17. NA	17. 0
	19. Samoa	18. NA	18. 0
	20. India	19. NA	19. 0
	21. Indonesia	20. NA	20. 1
	22. Pakistan	21. NA	21. 0
	23. Japan	22. NA	22. 0
	24. Nepal	23. NA	23. 0
	25. Thailand	24. NA	24. 0
	26. Tonga	25. NA	25. 0
	27. Kiribati	26. NA	26. 0
	28. Laos	27. NA	27. 0
	29. Macao	28. NA	28. 0
	30. Malaysia	29. NA	29. 0
	31. Maldives	30. NA	30. 0
	32. Marshall Islands	31. NA	31. 0
	33. Mongolia	32. NA	32. 0
	34. Myanmar	33. NA	33. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
27 May 2016	35. Nauru	34. NA	34. 0
	36. New Caledonia	35. NA	35. 0
	37. New Zealand	36. NA	36. 0
	38. Niue	37. NA	37. 0
	39. Palau	38. NA	38. 0
	40. Philippines	39. NA	39. 0
	41. Pitcairn Islands	40. NA	40. 0
	42. Taiwan	41. NA	41. 0
	43. Singapore	42. NA	42. 0
	44. Vanuatu	43. NA	43. 0
	45. Vietnam	44. NA	44. 0
	46. Solomon Islands	45. NA	45. 0
	47. Wallis and Futuna	46. NA	46. 0
	48. Tokelau Islands	47. NA	47. 0
	49. Tuvalu	48. NA	48. 0
		49. NA	49. 0
	Website does not look to have been updated recently. Lots of relevant documents but mostly pre-dating 2008. Many links to potentially relevant sources also broken.		Total: 3
Organisations/Ongoing Studies			
Drug Policy Alliance http://www.drugpolicy.org/library/	Attempts to search website/publications linked to Lindesmith library below.		
30 May 2016			
Lindesmith Library http://geniehost23.inmagic.com/InmagicGenie/opac.aspx?QueryScreen=simple_opac_search&xm=1&xm=1&xe=2&xe=2	Searched using terms: 1. Injecting drug use	1. 12	1. 0
	Publications linked were principally form the peer-reviewed literature. All documents found pre-date 2008.		
30 May 2016			Total: 0
WHO Regional Office for the Eastern Mediterranean - Library and Health Literature Services	Searched database EMCAT for the following terms: 1. Injecting drug use 2. Inject drug	1. 0 2. 0	1. 0 2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.emro.who.int/Library/Databases/wxis.exe/Library/Databases/iah/?IsisScript=iah/iah.xic&base=emcat&lang=i	3. Drug	3. 156	3. 0
30 May 2016	Searched database IMEMR for the following terms: 4. Injecting drug use	4. 27	4. 0
	Searched database MESH for the following terms: 5. Injecting drug use 6. Drug	5. 0 6. 191	5. 0 6. 0
	Searched database EMAIEC for the following terms: 7. Injecting use	7. 51	7. 0
Total: 0			
New York Academy of Medicine http://www.nyam.org/library/	Links to peer reviewed literature.		
30 May 2016			
Policy Information Exchange Missouri Institute of Mental Health http://mimh200.mimh.edu/mimhweb/pie/	Browsed through documents and resources section but found nothing relevant.		
31 May 2016			
Project CORK http://www.projectcork.org/	Used CORK database search with the following parameters: 1. Topic: injecting drug use; Year: 2008-2016; Record type: report OR conference paper	1. 26	1. 0
31 May 2016			Total: 0
PsycEXTRA http://www.apa.org/psycextra/	Accessed via UNSW library. Used following search strategies: 1. "injecting drug users" AND 2008-2016 2. "injecting drug use" AND 2008-2016 3. "intravenous drug use" AND 2008-2016	1. 7 2. 16 3. 41	1. 0 2. 0 3. 2
31 May 2016			

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Total: 2			
Schaffer Library of Drug Policy http://www.druglibrary.org/schaffer/index.htm 31 May 2016	Used google advanced search to explore website. Used terms: 1. Injecting drug use 2. Inject drug prevalence	1. 2 2. 77	1. 0 2. 0
Science.gov : USA.gov for science http://science.gov/ 31 May 2016	Explored "major studies on drugs and drug policy" but found nothing recent or relevant. Attempted some searches using standard terms (e.g. "inject drug"). Searches turned up documents from peer-reviewed literature (returned all PubMed and PubMed Central resources).		Total: 0
Virtual Health Library http://www.bireme.br/php/index.php?lang=en 31 May 2016	LILACS database: Attempted some searches using standard terms (e.g. "inject drug"). All resources found were from the peer reviewed literature.		
Web of Science ISI Proceedings 31 May 2016	Unable to access MEDICARIB, LEYES Access through UNSW library. Used web of science search engine selecting only "Conference Proceedings Citation Index- Science (CPCI-S) --1990-present." Filtered all searches for year 2008-2016. Used terms: 1. "injecting drug use" 2. Injecting drug users Most citations were of conference proceedings that were later published in the peer-reviewed literature.	1. 9 2. 53	1. 0 2. 2
Total: 2			
The Beckley Foundation – Drug Policy Programme http://beckleyfoundation.org/ 31 May 2016	URL given in technical report broken. Link to left find via google searching. Used google advanced search to navigate websites. Used terms: 1. Injecting drug use Explored publications and archived website but found nothing relevant.	1. 49	1. 0
Total: 0			
Health Behaviour in School aged children	Explored reports sections, but found no mention of injecting drug use.		

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.hbsc.org/			
31 May 2016			
International Narcotics Control Board http://www.incb.org/incb/index.html	1. Explored publications and technical reports sections	1. NA	1. 8
31 May 2016		Total: 8	
Monar Na Bajzlu Magazine http://magazynmnb.pl/	Link provided in technical report not functional. Link found via google search. Used google advanced search to explore website. Used terms: 1. Wstrzykiwać (inject)	1. 0	1. 0
31 May 2016		Total: 0	
Treatment Monitoring and Advocacy Project http://www.aidstreatmentaccess.org/	Link to site broken.		
31 May 2016			
World Bank http://www.worldbank.org/ http://www.worldbank.org/en/publication/reference	Searched publications using the following restrictions: 1. “injecting drug use” and year: 2008-2016 and type: publications and research 2. “injecting drug users” and year: 2008-2016 and type: publications and research 3. “inject drug” and year: 2008-2016 and type: publications and research	1. 14 2. 32 3. 42	1. 2 2. 0 3. 1
31 May 2016		Total: 5	
United Nations Office on Drugs and Crime (UNODC) http://www.unodc.org	1. Explored world drug reports section 2. Explored surveys on drugs and crime sections	1. NA 2. NA	1. 9 2. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
http://www.unodc.org/unodc/en/GAP/index.html	3. Explored data and indicators section	3. NA	3. 4
http://www.unodc.org/treatment/	4. Explored publications section	4. NA	4. 2
1 June 2016	5. Explored treatnet	5. NA	5. 0
Total: 15			
World Health Organization www.who.int	1. Explored HIV/AIDS > Publications on HIV > Publications on injecting drug use	1. NA	1. 3
WHO Library & Information Networks For Knowledge Database (WHOLIS) http://dosei.who.int/uhtbin/cgiirsi/Mon+Apr+28+04:08:45+MEST+2008/0/49	Searched publications on WHO iris (international repository for information sharing) for all WHO publications, including all regional offices. Used the following restriction: 2. Injecting drug user; year: 2008-2016; full text available online	2. 1817	2. 16
Regional Office for Africa http://www.afro.who.int/	Regional office for Africa: 3. Used google advanced search for "injecting drug use"	3. 8	3. 1
Regional Office for the Americas Pan American Health Organization http://www.paho.org/hq/	4. Used google advanced search for "inject drug"	4. 16	4. 0
	5. Explored substance abuse section	5. NA	5. 0
	6. Searched in the "WHO African Regional Digital Library" for "inject drug," "injecting drug" or "injecting"	6. 0	6. 0
Regional Office for South-East Asia http://www.searo.who.int/	7. Searched in the "African Index Medicus" for "inject drug," "injecting drug" or "injecting"	7. 0	7. 0
	8. Explored data and statistics section	8. 0	8. 0
Regional Office for Europe http://www.euro.who.int/	Regional Office for the Americas Pan American Health Organization 9. Searched within publications for "inject drug/usario de drogas" filtered by years [2008:2016]	9. 24	9. 1
Regional Office for Eastern Mediterranean http://www.emro.who.int/	10. Explored data section (HIV indicators)	10. NA	10. 0
	11. Explored countries section	11. NA	11. 0
	12. Searched site for "injecting drug use"	12. 0	12. 0

Name, Link, & Date Searched	Strategy/ Comments	Total Number of Documents Found	Number of Relevant Documents Saved
Regional Office for the Western Pacific http://www.wpro.who.int/	Regional Office for South-East Asia		
	13. Searched within the regional publications database for “injecting drug use”	13. 22	13. 0
	14. Searched seaaro.who.int for “injecting drug use”	14. 4	14. 0
	Regional Office for Europe		
	15. Searched within publications for “drug”	15. 5	15. 0
	16. Searched European Regional Information System on Resources for the Prevention and Treatment of Substance Use Disorders – data did not specify beyond “substance use disorder”	16. NA	16. 0
	17. Searched website for “injecting drug use” AND prevalence	17. 40	17. 7
	Regional Office for Eastern Mediterranean		
	18. Searched within indicator section for “drug”	18. 22	18. 0
	19. Explored data repository	19. NA	19. 0
	20. Searched for “injecting drug user” – request to view some documents blocked by site	20. 163	20. 1
	Regional Office for the Western Pacific		
	21. <u>Searched site for “injecting drug user”</u>	21. 3	21. 0
	22. <u>Attempted to search digital library, but link was broken</u>	22. NA	22. 0
	23. <u>Searched publications for “drug”</u>	23. 0	23. 0
2-5 June 2016			Total: 29

Appendix 4: First round email and social media requests for information

4.1 Example email

We are looking for data from around the world about HIV, hepatitis B and C (HBV and HCV) prevalence among people who inject drugs.

We are also seeking data on the prevalence of injecting drug use, and any surveys of people who inject drugs that may contain details about their demographics and drug use.

Do you have data from your country?

We are undertaking a systematic review of existing data about people who inject drugs. This work will inform a range of global data collection efforts, including the Global Burden of Disease 2016 project.

We are collecting data for every country on:

- **prevalence of injecting drug use**
- **prevalence of HIV, HCV and HBV among people who inject drugs**
- **demographics and drug use characteristics of people who inject drugs** (e.g., age, gender, duration of injection, main drug used, injecting and sexual risk behaviours)
- **services provided to people who inject drugs:**
 - o needle and syringe programmes
 - o opioid substitution therapy (methadone, buprenorphine etc.)
 - o HIV antiretroviral therapy (ART)
 - o HIV testing and counselling
 - o condom provision

You may be familiar with estimates that have previously been published on some of these topics, but the data are becoming old.

We have conducted a large search of the peer-reviewed literature, and are gathering as much grey literature (such as NGO and government reports) as possible. However, there will be material that our search will have missed.

Do you have any information that may be of use to us? Any assistance will be acknowledged in the reports we are writing on this subject. Due to the tight timelines of this project we can only consider material received **by Friday October 28th 2016.**

Many thanks in anticipation of any information you can provide, and for circulating to other colleagues who may be able to assist.

Please direct all correspondence to global.reviews@unsw.edu.au

Request for data about people who inject drugs

We are undertaking global reviews about people who inject drugs.

We seek information from every country on:

- The prevalence of injecting drug use
- Characteristics of people who inject drugs
- HIV, hepatitis C and hepatitis B prevalence
- Services provided to people who inject
 - E.g. opioid substitution therapy, needles and syringes, HIV treatment

Do you know of information that may be of use?

If so, please email global.reviews@unsw.edu.au by **Friday October 28th 2016**

Your help is appreciated, and will be acknowledged in our reports.



4.2 Example social media request

Help contribute data to a global review of injecting [#drug](#) use, [#HIV](#) and [#hepatitis](#), and coverage of HIV [#prevention](#) services

Request for data about people who inject drugs

We are undertaking global reviews about people who inject drugs.

We seek information from every country on:

- The prevalence of injecting drug use
- Characteristics of people who inject drugs
- HIV, hepatitis C and hepatitis B prevalence
- Services provided to people who inject
 - E.g. opioid substitution therapy, needles and syringes, HIV treatment

Do you know of information that may be of use?

If so, please email global.reviews@unsw.edu.au by **Friday October 28th 2016**

Your help is appreciated, and will be acknowledged in our reports.



4.3 Twitter engagement statistics

The tweet was delivered to 5,525 individual feeds. It received 76 total engagements, including 20 retweets.

Appendix 5: Classification system used in the assessment of study methodologies

Table 5.1: Classification approach for grading studies

Grade	Data for the prevalence of injecting drug use	Data for the characteristics of injecting population	Data for the prevalence of HIV and hepatitis
A	A1: Multi-parameter evidence synthesis A2: Indirect prevalence estimation methods A3: Network scale-up method	Multi-site study with at least two sample types (e.g., treatment or outreach sample)	Multi-site seroprevalence study with at least two sample types (e.g., treatment or outreach sample)
B	General population household survey	B1: Multi-site study with one sample type B2: Single-site study with multiple sample types	B1: Multi-site seroprevalence study with one sample type B2: Single-site seroprevalence study with multiple sample types
C	Expert judgement with method by which estimate was obtained known (e.g., rapid assessment); Delphi method or other consensus estimate; government registrations of drug users	Single-site study with one sample type	Single-site seroprevalence study with one sample type
D1	*Official government estimate with methodology unknown	-	*Registration or notification data
D2	*Other estimates with unknown methodology	-	* Self-report
U	-	Estimate with methodology unknown	*Estimate with methodology unknown

Note. *Data graded D/U were not included in estimates presented in this manuscript.

Appendix 6: Selection of IDU prevalence estimates

Estimates of current injectors defined as those who had injected in the past 12 months were selected in preference to estimates for injecting drug users defined by other criteria. Wherever possible, we used the highest grade estimate (see Appendix Table 5.1). We preferred older, higher grade estimates to more recent lower grade estimates.

Where multiple estimates were available, Grade A estimates were selected in preference to other grades. If multiple estimates of the same grade were located, we conducted random effects meta-analysis to pool estimates.

The exception to this was when an estimate had been made for a single city. We attempted to ensure the maximum geographic coverage for a country.

When deriving the prevalence of injecting drug use it was also assumed people who inject drugs were aged between 15 and 64 years of age and prevalence was thus calculated among this population only.

One estimate of IDU prevalence available: in the situation where only one estimate of population prevalence or population size was available, then the weighted regional uncertainty limits around population prevalence were used. These were derived by estimating the weighted prevalence of low, mid and high IDU prevalence in countries where all three estimates were available. The amount of uncertainty was estimated. For all regions, this variation was then applied to each country where only one estimate had been derived in order to estimate an uncertainty range around the estimate.

No estimate of IDU prevalence (or IDU population size) available but IDU had been reported: In this instance, the weighted regional prevalence was used.

No reports of IDU were found for the country: In countries where no documented evidence of injecting drug use occurring could be located, we assumed zero prevalence of injecting.

For each region, the sum of all country estimates (as derived above) and their ranges was made. The “global” estimate comprised the addition of all regional estimates.

Appendix 7: Selection and synthesis of HIV and hepatitis estimates

Overall

- Estimates with sample sizes ≤ 40 PWID were excluded.
- Samples which represented a subpopulation (e.g., prisoners, HIV non-infected) were excluded, including those where $\leq 85\%$ of the original sample were included (e.g., due to incomplete responding or attrition in follow-up).
- Where multiple sources were identified using data from the same sample, the source(s) with the most complete data regarding the various indicators of interest were included.
- Where possible, if calculation or typesetting errors were detected in reported estimates, these were recalculated or clarified with authors.

Table 7.1: Classification system used in the evaluation of study methodologies

Grade	Hepatitis/HIV prevalence data
A	Multi-site seroprevalence study with >1 sample types (e.g. needle-syringe programmes, drug treatment centres, incarcerated IDUs)
B	B1 Seroprevalence study, single sample type and multiple sites B2 Seroprevalence study, multiple sample types and a single site
C	Seroprevalence study, single sample type
D	Registration or notification of cases of hepatitis/HIV infection
E	Prevalence study using self-reported hepatitis/HIV status
Ungraded	Estimate with methodology unknown

'D', 'E' and ungraded data have not been included in the estimates presented here.

HIV and Hepatitis among IDU

- Data collected more recently than those in the previous global reviews^{2,3} were considered for inclusion.
- If no details were provided on whether a single or multiple sample types were used, it was assumed a single sample type only, and graded C.
- Estimates based on case notifications (grade 'D'), self-report (grade 'E') or unspecified methodologies (grade U) were excluded.

- City, sub-national and national estimates (grade A-C) published within the last four years of the most recently available estimate were pooled via random effects meta-analysis where multiple estimates were available for a country.
- Studies that excluded IDUs according to gender (e.g. those actively excluding male IDUs) were not included if mixed gender studies were available.
- Hepatitis estimates were restricted to serological test results for anti-HCV and HBsAg. Studies reporting only on genetic results or serological residue from syringes were excluded.
- Hepatitis B reports not specifying a specific serological marker were reviewed by JS, EC, PV and MH, and if unclear to which marker these estimates pertained, they were excluded.
- Hepatitis prevalence estimates from single city studies were assumed to be *single site* studies unless otherwise stated in the study methodology.
- Where possible, if calculation or typesetting errors were detected in reported estimates, these were recalculated or clarified with authors.

One estimate of HIV, HCV or HBsAG prevalence available, with no uncertainty: in the countries where only one estimate of HIV, HCV or HBsAG prevalence was available, then the uncertainty limits were estimated based on the median sample size of data (with uncertainty) from other countries in the same region. If no other country had estimates with uncertainty available within a region, the sample sizes were drawn from estimates at the broader global-level.

No estimate of HIV, HCV or HBsAG prevalence available: In this instance, the weighted regional prevalence was used for all countries without an estimate of prevalence but where injecting drug use reported to occur. The methods for estimating uncertainty ranges described above (based on the median sample size of other estimates within the same region) were used to estimate uncertainty bounds.

No reports of injecting drug use were found for the country: In countries where no documented evidence of injecting drug use occurring could be located, we assumed zero prevalence of injecting and of HIV among people who inject drugs.

Appendix 8: Decision rules and data extracted from studies of characteristics of people who inject drugs

Overall

- Estimates with sample sizes ≤ 40 PWID were excluded.
- All eligible city, sub-national and national data for each country were pooled via random effects meta-analysis to create country, regional and global estimates where multiple estimates were available.
- Samples which represented a subpopulation (e.g., prisoners, HIV non-infected) were excluded, including those where $\leq 85\%$ of the original sample were included (e.g., due to incomplete responding or attrition in follow-up).
- Where multiple sources were identified using data from the same sample, the source(s) with the most complete data regarding the various indicators of interest were included.
- Where estimates were available for multiple years of annual surveys, the most recent estimate was included.
- Where possible, if calculation or typesetting errors were detected in reported estimates, these were recalculated or clarified with authors.
- Estimates were excluded if the sample inclusion/exclusion criteria reflected the characteristic of interest (e.g., samples where participation was restricted to male PWID were excluded from meta-analyses of the percentage female).
- In the case of time-varying characteristics, estimates for recent timeframes (i.e., ≤ 12 months) were pooled.

Selection of Characteristics Data for Pooling

- Only categorical data were used to determine the 'young' age group. We computed the percentage who were young, defined where possible as ≤ 24 years.
- A hierarchy of sex risk behaviours was developed for selection of a single estimate where multiple risk behaviours were reported. For example, unprotected sex with casual/non-regular partner was selected for extraction over unprotected sex with a regular partner.

- A hierarchy of injecting risk behaviours was developed for selection of a single estimate where multiple risk behaviours were reported. For example, receptive syringe sharing was selected for extraction over re-use of own injecting equipment.
- Recent sex work was defined as an occasion where the individual had exchanged sex for money and/or drugs within the past year wherever possible.
- A hierarchy of main drug injected estimates were developed, where 'main drug injected' was selected for pooling over 'last drug injected', which in turn was selected over endorsement of any injecting use of the specific drug within a set timeframe.

For main drug injected, where estimates for 'any opioid' were not available, estimates of heroin or pharmaceutical opioid use were input (summed for main drug/last drug if both heroin and pharmaceutical opioid estimates available; highest estimate input for injecting use within a set timeframe if both estimates were available). This same process applied for stimulants (meth/amphetamine and cocaine), or where any other summation of estimates was required (e.g., computing single estimate of pharmaceutical opioid injecting use from estimates for various pharmaceutical opioids e.g., morphine, oxycodone). Where a combination of opioids and stimulants was identified (e.g., 'speedball': cocaine and heroin), the percentage reporting injecting use was input to both categories (i.e., estimate entered into heroin and cocaine).

Appendix 9: Method of estimating regional and global numbers

A range of situations existed with respect to the amount of data available on the prevalence of injecting drug use and of HIV, HCV and HBsAg among people who inject drugs. Using the following protocol, available country level data were extrapolated to derive regional and global estimates of the number of injecting drug users who are HIV, HCV or HBsAg positive, and to derive uncertainty bounds around these estimates. Our approach was developed and used in the previous UN Reference Group global reviews and is consistent with the approaches used in WHO and UN publications.

Regional estimates:

Injecting drug use was reported to be present in a number of countries (as identified by previous reviews⁴), for which prevalence estimates for HIV, HCV or HBsAg among PWID were not able to be located in this review. For the purpose of deriving regional estimates of the number of current PWID who were HIV, HCV or HBsAg positive, the mean global or regional prevalence estimates were applied to these countries where country-level prevalence estimates were absent, but where evidence of PWID existed.

Estimated regional and global prevalence estimates for PWID were the mean of available country-level estimates, within a region or globally respectively, weighted by estimated country aged 15-64 years United Nations population size. Estimated regional and global prevalence estimates for HIV, HCV or HBsAg among PWID were the mean of available country-level estimates, within a region or globally respectively, weighted by estimated country PWID population size.

Estimated *regional prevalence* was used where there were two or more countries within a region for which estimates were available, or where data was available for only one country if this country accounted for greater than 50% of the total estimated regional PWID population.

Estimated *global prevalence* was used in regions where estimates were not available of any country, or if available for only one country but this country accounted for less than 50% of the total estimated regional PWID population.

Uncertainty bounds:

1. If an estimate was reported with lower and upper uncertainty bounds (for example, if the study estimated 95% confidence intervals) these were used. This was particularly notable in the case of data from the European Monitoring Centre for Drugs and Drug Addiction (EMCDDA) and published literature in peer-reviewed journals.
2. If only one estimate on the prevalence of PWID that met inclusion criteria was available and no upper and lower bounds were reported in a given country, the regional or global estimates were applied based on the 50% rule described above..

For each *regional* population size estimate, the sum of all country estimates (both those reported and those derived as above) and their ranges, was made. The *global* population size estimate comprised the sum of all regional estimates.

For each region, the sum of all country estimates (as derived above) and their ranges was made. The “global” estimate comprised the addition of all regional estimates.

References

1. Degenhardt L, Gibson G, Leung J, Kumvaj M, Larney S. *Searching the grey literature to access research on illicit drug use, HIV and viral hepatitis: A resource to identify drug-related databases and websites*. NDARC Technical Report No. 334. Sydney: National Drug and Alcohol Research Centre, University of NSW. <https://ndarc.med.unsw.edu.au/resource/searching-grey-literature-access-research-illicit-drug-use-hiv-and-viral-hepatitis-resource> Accessed on May 29th 2017;2016.
2. Mathers BM, Degenhardt L, Phillips B, et al. Global epidemiology of injecting drug use and HIV among people who inject drugs: a systematic review. *Lancet*. 2008;372(9651):1733-1745.
3. Nelson PK, Mathers BM, Cowie B, et al. Global epidemiology of hepatitis B and hepatitis C in people who inject drugs: results of systematic reviews. *Lancet*. 2011;378(9791):571-583.
4. Mathers B, Degenhardt L, Phillips B, et al. Global epidemiology of injecting drug use and HIV among people who inject drugs: a systematic review. *Lancet*. 2008;372:1733-1745.

Appendix 10: Grade and sources for country-level estimates of the prevalence of injecting drug use

	New estimate ?	Year of estimate	% (range)	National no. PWID (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Australasia									
Australia	Yes	2016	0.60 (0.43,0.76)	93000 (68000,118000)	1	A	National	A1	¹
New Zealand	No	2006	0.73 (0.49,0.97)	22500 (15000,30000)	1	B	National	B	²
Caribbean									
Antigua & Barbuda	No		--	--					
Bahamas	No		NK	NK					
Barbados	No		--	--					
Bermuda	No		NK	NK					
Comm. of Puerto Rico	No	2002	1.15 (0.77,1.71)	28000 (19000,42000)	1	A	No region	A1	²
Cuba	No		--	--					
Dominica	No		--	--					
Dominican Republic	No		NK	NK					
Grenada	No		--	--					
Haiti	No		NK	NK					
Jamaica	No		NK	NK					
Saint Kitts & Nevis	No		--	--					
Saint Lucia	No		--	--					
St Vincent & the Grenadines	No		--	--					
Trinidad & Tobago	No		--	--					
Central Asia									
Kazakhstan	No	2006	0.96 (0.64,1.42)	112500 (75500,166000)	1	A	National	A1	²
Kyrgyzstan	No	2006	0.74 (0.50,1.11)	28500 (19000,42000)	1	A	National	A1	²
Tajikistan	No	2006	0.45 (0.30,0.66)	23500 (16000,34500)	1	A	National	A1	²
Turkmenistan	No		NK	NK					
Uzbekistan	No	2006	0.47 (0.32,0.70)	94000 (63500,139000)	1	A	National	A1	²
East and South East Asia									
Brunei Darussalam	No		NK	NK					
Cambodia	Yes	2012	0.11 (0.10,0.23)	10500 (9500,22500)	1	A2	National	B3	³
China	No	2005	0.25 (0.19,0.31)	2564000	1	A	No region	A1	²
				(1964000,3164000)					
Hong Kong (China)	No		NK	NK					
Indonesia	Yes	2012	0.11 (0.09,0.13)	190500 (156000,225000)	1	A2	National	B3	⁴
Japan	No	2004	0.47 (0.36,0.58)	368500 (281000,459000)	1	D1	No region	A1	²
Lao PDR	No		NK	NK					
Malaysia	No	2002	1.33 (1.11,1.56)	281500 (233500,330000)	1	C	No region	A1	²
Mongolia	No		NK	NK					
Myanmar	Yes	2014	0.48 (0.32,0.65)	173500 (115500,235000)	1	A2	National	B2	⁵
North Korea	No		--	--					
Philippines	Yes	2011	0.04 (0.03,0.05)	25500 (19000,32000)	1	C	National	B2	⁶
Republic of Korea	No		NK	NK					
Singapore	No		NK	NK					
Taiwan	No		NK	NK					
Thailand	Yes	2013	0.11 (0.03,0.18)	51500 (16000,87000)	2	A3	National	A2	⁷
Timor Leste	Yes	2015	0.01 (0.00,0.02)	<500 (<500,<500)	1	A2	National	C	⁸
Viet Nam	No	2005	0.25 (0.19,0.31)	161000 (123000,200500)	1	D1	No region	A1	²
Eastern Europe									
Armenia	Yes	2010	0.62 (0.41,1.35)	13000 (9000,29000)	1	A2	National	B2	⁹
Azerbaijan	Yes	2011	0.61 (0.49,0.74)	43500 (34500,52000)	34	A2	Sub-national	B2	¹⁰
Belarus	Yes	2015	0.59 (0.22,0.96)	40500 (15000,66000)	1	A2	National	B3	¹¹
Bosnia & Herzegovina	No		NK	NK					
Bulgaria	No	2005	0.38 (0.30,0.45)	18500 (15000,22500)	1	A	National	A1	²
Czech Republic	Yes	2014	0.64 (0.61,0.67)	47000 (44500,49000)	1	A2	National	B2	¹²
Estonia	Yes	2009	0.94 (0.69,1.73)	8500 (6500,16000)	1	A2	National	A1	¹³
Georgia	No	2004	4.19 (0.48,7.90)	115000 (13000,217000)	1	C	National	A1	²
Hungary	No	2005	0.06 (0.03,0.08)	4000 (2000,6000)	1	A	National	A1	²
Latvia	Yes	2012	0.92 (0.73,1.17)	14000 (11000,18000)	1	A2	National	B2	¹²

	New estimate ?	Year of estimate	% (range)	National no. PWID (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Lithuania	No	2006	0.22 (0.12,0.34)	5000 (2500,8000)	1	C	National	A1	²
Moldova	Yes	2008	0.40 (0.25,0.54)	12000 (7500,16500)	8	A3	Sub-national	B3	¹⁴
Poland	No		NK	NK					
Romania	Yes	2014	0.62 (0.46,0.84)	81500 (60500,110000)	1	A2	City	B2	¹⁵
Russian Federation	No	2007	1.78 (0.94,2.71)	1881000 (1028500,3114000)	1	D1	National	A1	²
Slovakia	No	2006	0.49 (0.35,0.89)	20000 (14500,36000)	1	A	National	A1	²
Ukraine	Yes	2012	0.97 (0.52,1.79)	319500 (172000,590500)	1	A2	National	B3	¹⁶
Latin America									
Argentina	No	1999	0.29 (0.29,0.30)	80500 (79000,82500)	1	D1	No region	A1	²
Belize	No		--	--					
Bolivia	No		NK	NK					
Brazil	No	2003	0.67 (0.51,0.87)	962000 (734500,1256000)	1	D1	National	A1	²
Chile	No	2006	0.38 (0.29,0.50)	47000 (36000,61500)	1	D1	National	A1	²
Colombia	No		NK	NK					
Costa Rica	No		NK	NK					
Ecuador	No		NK	NK					
El Salvador	No		NK	NK					
Guatemala	No		NK	NK					
Guyana	No		NK	NK					
Honduras	No		NK	NK					
Mexico	Yes	2011	0.18 (0.12,0.25)	150500 (100500,209500)	1	B	National	B	¹⁷
Nicaragua	No		NK	NK					
Panama	No		NK	NK					
Paraguay	No		NK	NK					
Peru	No		NK	NK					
Suriname	No		NK	NK					
Uruguay	Yes	2007	0.30 (0.10,0.87)	6500 (2000,19000)	1	B	National	B2	¹⁸
Venezuela	No		NK	NK					
Middle East & North Africa									
Algeria	No		NK	NK					
Bahrain	No		NK	NK					
Cyprus	Yes	2014	0.08 (0.04,0.12)	500 (500, 1,000)	4	A2	National	B2	¹²
Egypt	No		NK	NK					
Iraq	No		NK	NK					
Israel	No		NK	NK					
Jordan	No		NK	NK					
Kuwait	No		NK	NK					
Lebanon	No		NK	NK					
Libyan Arab Jamahiriya	No	2001	0.05 (0.01,0.10)	2000 (1000,3000)	1	C	National	A1	²
Morocco	Yes	2011; 2012; 2013	0.13 (0.07,0.20)	30500 (15500,45500)	3	A2; B	Sub-national	B3	^{19 20}
Occ. Palestinian Terr.	No		NK	NK					
Oman	No		NK	NK					
Qatar	No		NK	NK					
Saudi Arabia	No		NK	NK					
South Sudan	No		--	--					
Sudan	No		NK	NK					
Syrian Arab Rep.	No		NK	NK					
Tunisia	No		NK	NK					
Turkey	No		NK	NK					
United Arab Emirates	No		NK	NK					
Yemen	No		NK	NK					
North America									
Canada	Yes	2004	1.22 (1.04,1.40)	308000 (262000,354500)	1	B	National	B2	²¹
United States	Yes	2007	1.04 (0.57,1.88)	2248500 (1236500,4074000)	1	A2	National	A2	²²
Pacific Island States & Terr.									
American Samoa	No		NK	NK					
Fed. States of Micronesia	No		NK	NK					
Fiji	No		NK	NK					
French Polynesia	No		NK	NK					

	New estimate ?	Year of estimate	% (range)	National no. PWID (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Guam	No		NK	NK					
Kiribati	No		NK	NK					
Marshall Islands	No		NK	NK					
Nauru	No		--	--					
New Caledonia	No		NK	NK					
Northern Mariana Islands	No		NK	NK					
Palau	No		NK	NK					
Papua New Guinea	No		NK	NK					
Samoa	No		NK	NK					
Solomon Islands	No		NK	NK					
Tonga	No		NK	NK					
Tuvalu	No		--	--					
Vanuatu	No		NK	NK					
South Asia									
Afghanistan	Yes	2012	0.80 (0.50, 1.09)	139000 (88000, 190500)	4	A2	Sub-national	B2	²³
Bangladesh	Yes	2016	0.07 (0.06, 0.07)	68500 (63500, 74000)	1	A2	National	B3	²⁴
Bhutan	No		NK	NK					
India	No	2006	0.02 (0.01, 0.03)	197000 (127500, 267000)	1	A	National	A1	²
Iran	Yes	2013	0.28 (0.19, 0.37)	158000 (107000, 209000)	1	A3	National	A1	²⁵
Maldives	Yes	2008	0.60 (0.26, 0.94)	1500 (500, 2500)	2	C	Sub-national	B2	²⁶
Nepal	Yes	2011	0.20 (0.19, 0.21)	35000 (33500, 37000)	1	A2	National	B3	²⁷
Pakistan	Yes	2011	0.37 (0.32, 0.42)	423000 (363000, 482500)	1	A2	National	B3	²⁸
Sri Lanka	Yes	2013	<0.01 (<0.01, <0.01)	500 (500, 500)	1	C	National	B2	²⁹
Sub Saharan Africa									
Angola	No		NK	NK					
Benin	No		NK	NK					
Botswana	No		--	--					
Burkina Faso	No		NK	NK					
Burundi	No		NK	NK					
Cameroon	No		NK	NK					
Cape Verde	No		NK	NK					
Central African Republic	No		--	--					
Chad	No		NK	NK					
Comoros	No		--	--					
Congo (Kinshasa)	Yes	2013	0.01 (0.00, 0.40)	3500 (0, 158000)	1	A2	National	B3	³⁰
Cote d'Ivoire	Yes	2014	0.01 (0.00, 0.01)	500 (500, 1000)	2	A2	City	B3	³¹
Djibouti	No		NK	NK					
Equatorial Guinea	No		--	--					
Eritrea	No		--	--					
Ethiopia	No		NK	NK					
Gabon	No		NK	NK					
Gambia	No		NK	NK					
Ghana	No		NK	NK					
Guinea	No		NK	NK					
Guinea-Bissau	No		--	--					
Kenya	Yes	2011; 2012	0.12 (0.03, 0.20)	30500 (9000, 52000)	6	A2	Sub-national	B3; A1	^{32,33}
Lesotho	No		--	--					
Liberia	No		NK	NK					
Madagascar	Yes	2014	0.12 (0.02, 0.59)	15500 (3000,79500)	1	A2	National	B3	³⁴
Malawi	No		NK	NK					
Mali	No		NK	NK					
Mauritania	No		--	--					
Mauritius	Yes	2014	0.78 (0.39,1.54)	7000 (3500,14000)	1	B1	Sub-national	B3	³⁵
Mozambique	Yes	2014	0.20 (0.00, 0.41)	29000 (0, 59000)	4	A1; A2	City	A1	³⁶
Namibia	No		--	--					
Niger	No		NK	NK					
Nigeria	No		NK	NK					
Rep. of the Congo	No		--	--					
Rwanda	Yes	2011	0.03 (0.00,0.07)	2000 (<500,4500)	1	A3	National	B3	³⁷
Sao Tome & Principe	No		--	--					
Senegal	No		NK	NK					
Seychelles	Yes	2011	2.30 (1.54,3.43)	1500 (1000,2500)	1	D1	National	B3	³⁸

	New estimate ?	Year of estimate	% (range)	National no. PWID (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Sierra Leone	Yes	2013	0.04 (0.04,0.04)	1500 (1000,1500)	1	A2	National	B2	39
Somalia	No		NK	NK					
South Africa	Yes	2014	0.21 (0.06,0.74)	76000 (21500,268000)	1	A2	National	B3	40
Swaziland	No		NK	NK					
Togo	Yes	2014	0.06 (0.01,0.49)	2500 (<500,19500)	1	C	National	B3	41
Uganda	No		NK	NK					
United Rep. of Tanzania	Yes	2012	1.24 (0.72, 1.76)	343000 (200000, 486000)	2	A2	Sub-national	A1	42
Zambia	No		NK	NK					
Zimbabwe	No		NK	NK					
Western Europe									
Albania	No		NK	NK					
Andorra	No		NK	NK					
Austria	No	2000	0.32 (0.22,0.42)	18500 (12500,24500)	1	A	National	A1	2
Belgium	Yes	2014	0.35 (0.24,0.49)	26000 (18500,37000)	1	A2	National	B2	12
Croatia	Yes	2015	0.23 (0.18,0.29)	6500 (5000,8500)	1	A2	National	B2	12
Denmark	Yes	2009	0.45 (0.35,0.52)	16500 (13000,19000)	1	A2	National	A1	43
England	Yes	2010	0.59 (0.55,0.63)	210500 (196500,225000)	1	A2	National	B2	44
Finland	Yes	2012	0.46 (0.41,0.67)	17000 (15000,25000)	1	D2	National	B2	12
Form. Yug. Rep. Macedonia	No		NK	NK					
France	Yes	2011	0.20 (0.16,0.23)	82000 (66500,97000)	1	D2	National	A1	43
Germany	Yes	2000	0.24 (0.03, 0.45)	131,500 (14,000, 249,500)	2	A	National	B2	12
Greece	Yes	2014	0.07 (0.06,0.09)	5000 (4000,6000)	1	A2	National	B2	12
Greenland	No		--	--					
Iceland	No		NK	NK					
Ireland	No	1996	0.27 (0.20,0.33)	8500 (6500,10500)	1	A	No region	A1	2
Italy	No	1996	0.83 (0.57, 1.14)	341500 (233500, 467500)	1	A	No region	A1	2
Liechtenstein	No		--	--					
Luxembourg	Yes	2009	0.57 (0.45,0.69)	2000 (1500,2500)	1	A1	National	A1	45
Malta	No		NK	NK					
Monaco	No		NK	NK					
Montenegro	No		NK	NK					
Netherlands	No	2001	0.03 (0.02,0.04)	3500 (2500,4500)	1	A	National	A1	2
Northern Ireland	No		NK	NK					
Norway	Yes	2013	0.24 (0.21,0.29)	8500 (7000,10000)	1	A2	National	B2	12
Portugal	Yes	2012	0.22 (0.19,0.25)	16000 (14000,17500)	1	D2	National	B2	12
San Marino	No		NK	NK					
Scotland	Yes	2009	0.44 (0.38,0.49)	16000 (13500,17500)	2	A1	National	A1	46,47
Serbia	Yes	2016	0.49 (0.41,0.58)	29000 (24000,34500)	1	A2	Sub-national	B3	48
Slovenia	Yes	2012	0.42 (0.30,0.55)	6000 (4000,7500)	1	C	National	A1	43
Spain	Yes	2013	0.03 (0.01, 0.05)	10,500 (3,500, 17,500)	3	A2	National	B2; A1	12,49
Sweden	Yes	2011	0.13 (0.03,0.62)	8000 (2000,38500)	1	A2	National	B2	12
Switzerland	Yes	2006	0.24 (0.19,0.29)	13500 (11000,16000)	1	A2	National	A1	50
Wales	No		NK	NK					

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Appendix 11: Grade and sources for country-level estimates of HIV prevalence among people who inject drugs

	New estimate?	Year of estimate	HIV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Australasia								
Australia	Yes	2011; 2012; 2013; 2014	1.3 (1.0,1.6)	32	B1	National	B3	1
New Zealand	Yes	2013	0.1 (0.0,0.8)	1	B1	National	B2	2
Caribbean								
Antigua & Barbuda	No		--					
Bahamas	No		NK					
Barbados	No		--					
Bermuda	No		NK					
Comm. of Puerto Rico	Yes	2015	6.0 (3.7,9.3)	1	B1	Sub-national	A1	3
Cuba	No		--					
Dominica	No		--					
Dominican Republic	No		NK					
Grenada	No		--					
Haiti	No		NK					
Jamaica	No		NK					
Saint Kitts & Nevis	No		--					
Saint Lucia	No		--					
St Vincent & the Grenadines	No		--					
Trinidad & Tobago	No		--					
Central Asia								
Kazakhstan	No	2005	9.2 (8.0,10.4)	1	B	Sub-national	A1	4
Kyrgyzstan	Yes	2013	12.4 (10.3,14.7)	1	B1	National	B2	5
Tajikistan	Yes	2015	27.0 (21.0,33.7)	1	B1	National	A2	6
Turkmenistan			NK					
Uzbekistan	Yes	2013	7.3 (5.8,9.1)	1	U	National	B2	7
East and South East Asia								
Brunei Darussalam	No		NK					
Cambodia	Yes	2012	24.4 (17.0,33.1)	1	B1	Sub-national	B3	8
China	Yes	2010; 2011; 2012; 2013	12.4 (6.8,17.9)	8	A; B1; C	Sub-national	A1	9-16
Hong Kong (China)	No		NK					
Indonesia	Yes	2013; 2015	44.5 (34.0,55.0)	6	B1; C	Sub-national	B3	17,18
Japan	No		NK					
Lao PDR	Yes	2011	17.4 (7.8,31.4)	1	B1	Sub-national	D	19
Malaysia	Yes	2012; 2014	17.8 (16.6,19.1)	2	B1	National	B2	20
Mongolia	No		NK					
Myanmar	Yes	2011; 2012; 2014	23.4 (19.0,27.7)	29	A; B1	Sub-national	B2; B3	21-24
North Korea	No		--					
Philippines	Yes	2011; 2013	20.3 (13.0,27.6)	5	B1	National	B2; B3	25,26
Republic of Korea	Yes	2010	0.0 (0.0,0.0)	1	C	National	A1	27
Singapore	No		NK					
Taiwan	Yes	2010; 2011; 2013	12.4 (8.1,16.8)	4	C	National	A1; C	28-31
Thailand	Yes	2009; 2010; 2012	24.5 (17.4,31.7)	6	B1; B2	Sub-national	A1; B3	32-34
Timor Leste	No		NK					
Viet Nam	Yes	2011; 2012; 2013; 2014	16.6 (13.1,20.1)	25	A; B1	Sub-national	A1; B2; B3	35-39
Eastern Europe								
Armenia	Yes	2011; 2012	5.4 (2.2,8.5)	6	B1	City	B2; B3	40,41
Azerbaijan	Yes	2012	9.7 (5.6,13.8)	7	B2	City	B2	42
Belarus	Yes	2015	25.6 (17.9,33.2)	6	B1	City	B2	43
Bosnia & Herzegovina	Yes	2012	0.3 (0.0,0.6)	5	B1	City	B3	44

	New estimate?	Year of estimate	HIV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Bulgaria	Yes	2011; 2012; 2013; 2014	7.0 (3.2,1.1)	6	A	Sub-national	B2	45
Czech Republic	Yes	2011; 2012; 2013; 2014	0.3 (0.2,0.4)	12	A; B1	National	B2	45
Estonia	Yes	2011; 2012; 2014	53.4 (44.4,62.5)	3	C	City	A1; A2; B2	46-48
Georgia	Yes	2012; 2015	2.2 (1.5,2.9)	13	B1	City	B2	49,50
Hungary	Yes	2012; 2014; 2015	0.2 (0.0,0.4)	3	A	National	A1; B2	45,51,52
Latvia	Yes	2011; 2012; 2013; 2014	26.9 (24.1,29.6)	4	B1	Sub-national	B2	45
Lithuania	Yes	2012; 2014	8.0 (1.7,14.4)	3	B1; C	City	B2	45,46
Moldova	Yes	2013	29.5 (12.9,46.0)	4	B2	City	B2	53
Poland	Yes	2005	18.0 (15.3,20.9)	1	A	Sub-national	A1	54
Romania	Yes	2011; 2012; 2013; 2014	20.5 (7.0,34.1)	7	A; B2	National	B2; B3	45,55
Russian Federation	Yes	2009; 2010; 2012; 2015	30.4 (17.9,43.0)	12	B1; B2	City	A1; C	56-59
Slovakia	Yes	2011; 2012; 2013; 2014	0.01 (0.0,0.03)	7	A; B1	National	B2	45
Ukraine	Yes	2013; 2015	19.1 (16.1,22.2)	60	B1	National	A1; B2	60,61
Latin America								
Argentina	No	1987; 1999; 2001	49.7 (35.4,64.0)	2	A	Sub-national	A1	4
Belize	No		--					
Bolivia	No		NK					
Brazil	No	2000	48.0 (18.0,78.0)	1	A	Sub-national	A1	4
Chile	No		NK					
Colombia	Yes	2011; 2014	4.6 (2.7,6.4)	7	B1	Sub-national	A1; B1	62,63
Costa Rica	No		NK					
Ecuador	No		NK					
El Salvador	No		NK					
Guatemala	No		NK					
Guyana	No		NK					
Honduras	No		NK					
Mexico	Yes	2005; 2007	4.0 (3.0,4.9)	3	A; B1	City	A1	64-66
Nicaragua	Yes	2014	2.4 (0.1,12.9)	1	B1	National	B3	67
Panama	No		NK					
Paraguay	No	2006	9.4 (3.7,15.0)	2	B	Sub-national	A1	4
Peru	No	1994; 1995	13.0 (10.9,15.1)	1	D	National	A1	4
Suriname	No		NK					
Uruguay	Yes	2004	18.5 (16.1,21.0)	1	U	National	B2	68
Venezuela	No		NK					
Middle East & North Africa								
Algeria	Yes	2014	1.1 (0.0,5.7)	1	C	National	B3	69
Bahrain	Yes	2009	4.6 (1.9,9.3)	1	C	National	B2	70
Cyprus	Yes	2011; 2012; 2013; 2014	1.2 (0.6,1.7)	8	A; B1	National	B2	45
Egypt	No	2006	2.6 (0.6,4.5)	1	B	City	A1	4
Iraq	No		NK					
Israel	Yes	2010	0.0 (0.0,0.0)	1	C	Sub-national	B2	71
Jordan	No		NK					
Kuwait	No		NK					
Lebanon	Yes	2008	0.0 (0.0,0.0)	1	C	City	A1	72
Libyan Arab Jamahiriya	Yes	2010	89.6 (85.8,92.7)	1	B1	City	A1	73
Morocco	Yes	2011; 2013	9.6 (0.0,20.6)	3	B1	Sub-national	B3	74,75
Occ. Palestinian Terr.	Yes	2013	0.0 (0.0,0.0)	4	B1	Sub-national	A1	76
Oman	No	2000; 2005	11.8 (5.0,18.6)					
Qatar	No		NK					
Saudi Arabia	Yes	2012	9.8 (7.0,13.2)	1	C	City	A1	77

	New estimate?	Year of estimate	HIV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
South Sudan	No		--					
Sudan	No	2003	0.0 (0.0,0.0)	1	B	No region	A1	4
Syrian Arab Rep.	Yes	2014	0.0 (0.0,0.0)	1	B1	Sub-national	B2	78
Tunisia	Yes	2009; 2011	3.5 (2.6,4.4)	2	B1	Sub-national	B2	79,80
Turkey	Yes	2012; 2013; 2014; 2015	0.2 (0.1,0.4)	5	B1	National	A1; B2	45,81
United Arab Emirates	No		NK					
Yemen	No		NK					
North America								
Canada	Yes	2011; 2012; 2013; 2014	11.3 (8.5,14.2)	24	A; B1	Sub-national	A2; B3; D	82-88
United States	Yes	2011; 2012; 2013; 2014	8.7 (6.8,10.7)	24	A; B1; B2; C	City	A1; B3	89-93
Pacific Island States & Terr.								
American Samoa	No		NK					
Fed. States of Micronesia	No		NK					
Fiji	No		NK					
French Polynesia	No		NK					
Guam	No		NK					
Kiribati	No		NK					
Marshall Islands	No		NK					
Nauru	No		--					
New Caledonia	No		NK					
Northern Mariana Islands	No		NK					
Palau	No		NK					
Papua New Guinea	No		NK					
Samoa	No	2004; 2005	0.0 (0.0-0.0)	1	D1	No region	A1	4
Solomon Islands	No	2004; 2005	0.0 (0.0-0.0)	1	D1	No region	A1	4
Tonga	No	2004; 2005	0.0 (0.0-0.0)	1	D1	No region	A1	4
Tuvalu	No		--					
Vanuatu	No		NK					
South Asia								
Afghanistan	Yes	2009; 2012	4.0 (2.2,5.8)	10	A; B1; C	City	A1; B3	94-97
Bangladesh	Yes	2011	0.5 (0.2,0.7)	23	A	City	B3	98
Bhutan	No		NK					
India	Yes	2012; 2013; 2014; 2015	15.6 (12.9,18.2)	36	A; B1; C	Sub-national	A1; B2	99-109
Iran	Yes	2010; 2012; 2013; 2014	14.0 (9.2,18.7)	5	A; B1; C	Sub-national	A1	110-114
Maldives	Yes	2008	0.0 (0.0,0.0)	2	B1	City	B2	115
Nepal	Yes	2012; 2013; 2014; 2015	9.6 (6.3,12.9)	11	A; B1	National	A1; B3; C	116-123
Pakistan	Yes	2011; 2014	32.3 (25.5,39.1)	16	B1	Sub-national	A1; B3	124,125
Sri Lanka	Yes	2014	0.0 (0.0,0.0)	1	C	City	B3	126
Sub Saharan Africa								
Angola	No		NK					
Benin	Yes	2013; 2015	5.1 (3.2,7.0)	2	B1	National	B2	127,128
Botswana	No		--					
Burkina Faso	No		NK					
Burundi	No		NK					
Cameroon	No		NK					
Cape Verde	No		NK					
Central African Republic	No		--					
Chad	No		NK					
Comoros	No		--					
Congo (Kinshasa)	Yes	2014	13.3 (7.3,21.6)	1	C	National	B3	129
Cote d'Ivoire	Yes	2014	5.3 (1.1,14.6)	1	B1	City	A1	130
Djibouti	No		NK					
Equatorial Guinea	No		--					

	New estimate?	Year of estimate	HIV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Eritrea	No		--					
Ethiopia	No		NK					
Gabon	No		NK					
Gambia	No		NK					
Ghana	No		NK					
Guinea	No		NK					
Guinea-Bissau	No		--					
Kenya	Yes	2010; 2011; 2012; 2013	42.0 (21.1,62.8)	7	B1; B2; C	Sub-national	A1; A2; B3	131-136
Lesotho	No		--					
Liberia	No		NK					
Madagascar	Yes	2012	4.8 (0.2,9.4)	3	B1	City	B2	137
Malawi	No		NK					
Mali	No		NK					
Mauritania	No		--					
Mauritius	Yes	2009; 2011	45.5 (42.4,48.6)	2	B1	National	A1; B3	138,139
Mozambique	Yes	2014	46.3 (41.9,50.7)	2	B1	City	B2; B3	140
Namibia	No		--					
Niger	No		NK					
Nigeria	Yes	2014	3.1 (1.8,4.4)	8	B1	National	B3	141
Rep. of the Congo	No		NK					
Rwanda	No		NK					
Sao Tome & Principe	No		--					
Senegal	Yes	2011	9.3 (5.0,15.4)	1	B1	City	A1	142
Seychelles	Yes	2011	3.8 (2.0,6.4)	1	B1	National	B2	143
Sierra Leone	Yes	2015	8.5 (5.4,12.6)	1	B1	National	B2	144
Somalia	No		NK					
South Africa	Yes	2013	14.2 (11.1,17.8)	1	A	Sub-national	A1	145
Swaziland	No		NK					
Togo	No		NK					
Uganda	No		NK					
United Rep. of Tanzania	Yes	2011; 2012; 2013; 2014	28.3 (16.3,40.4)	5	A; B1; C	Sub-national	A1; B3	146-150
Zambia	No		NK					
Zimbabwe	No		NK					
Western Europe								
Albania	Yes	2011	0.5 (0.0,2.8)	1	B1	City	C	151
Andorra	No		NK					
Austria	Yes	2011; 2012; 2013; 2014	0.6 (0.3,1.0)	14	A; B1; C	National	B2	45
Belgium	Yes	2011; 2012; 2013; 2014	4.3 (3.3,5.4)	7	B1; C	City	B2	45
Croatia	Yes	2015	0.4 (0.0,0.8)	3	B1	City	A1	152
Denmark	Yes	2010	1.3 (0.3,3.6)	1	B1	Sub-national	A1	153
England	Yes	2006	0.8 (0.1,1.5)	2	B1	Sub-national	A1	154,155
Finland	Yes	2014	1.2 (0.5,2.4)	1	B1	National	B2	45
Form. Yug. Rep. Macedonia	No		NK					
France	Yes	2010; 2011; 2012	8.7 (5.3,12.1)	3	A; B1	National	A1; B2	45,156
Germany	Yes	2011; 2012; 2013; 2014	4.4 (2.3,6.4)	8	B1	City	A1	157
Greece	Yes	2011; 2012; 2013; 2014	6.9 (4.2,9.6)	14	A; B1	National	A1; B2	45,158,159
Greenland	No		--					
Iceland	No		NK					
Ireland	No	1999	5.8 (4.2,7.4)	1	A	National	A1	4
Italy	Yes	2011; 2012; 2013; 2014	6.1 (4.7,7.5)	21	C; B1	City	A2; B2	45,160
Liechtenstein	No		--					

	New estimate?	Year of estimate	HIV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Luxembourg	Yes	2011; 2012; 2013; 2014	1.5 (0.5,2.5)	4	A	National	B2	45
Malta	Yes	2011; 2012; 2013; 2014	0.5 (0.0,1.2)	4	A	National	B2	45
Monaco	No		NK					
Montenegro	Yes	2008; 2005	0.2 (0.0,0.6)	2	B1	National	A1	161,162
Netherlands	Yes	2011; 2012; 2013; 2014	2.3 (1.9,2.6)	9	A; B1	National	B2	45
Northern Ireland	No		NK					
Norway	Yes	2010; 2011; 2012	0.7 (0.0,1.5)	3	A	City	B2	45
Portugal	Yes	2011; 2012; 2013; 2014	18.0 (15.4,20.6)	4	B1	National	B2	45
San Marino	No		NK					
Scotland	Yes	2014	0.8 (0.5,1.3)	1	B1	National	B3	163
Serbia	Yes	2014	0.0 (0.0,0.0)	2	B1	Sub-national	B3	164
Slovenia	Yes	2011; 2012; 2013; 2014	0.5 (0.1,1.0)	8	A; B1	National	B2	45,165
Spain	Yes	2010; 2011; 2012; 2013	32.6 (31.6,33.6)	6	A; B1	National	A1; B2	45,166,167
Sweden	Yes	2005; 2008	0.2 (0.0,0.5)	2	A; C	Sub-national	A; C	168,169
Switzerland	No	2004	1.4 (0.6,2.2)	1	A	No region	A1	4
Wales	No		NK					

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Appendix 12: Grade and sources for country-level estimates of anti-HCV prevalence among people who inject drugs

	New estimate ?	Year of estimate	Anti-HCV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Australasia								
Australia	Yes	2011; 2012; 2013; 2014	53.5 (50.2,56.9)	32	B1	National	B3	¹
New Zealand	Yes	2013; 2015	71.9 (63.2,80.6)	6	B1	National	A1; B2	^{2,3}
Caribbean								
Antigua & Barbuda	No		--					
Bahamas	No		NK					
Barbados	No		--					
Bermuda	No		NK					
Comm. of Puerto Rico	Yes	2015	78.4 (73.5,82.8)	1	B1	Sub-national	A1	⁴
Cuba	No		--					
Dominica	No		--					
Dominican Republic	No		NK					
Grenada	No		--					
Haiti	No		NK					
Jamaica	No		NK					
Saint Kitts & Nevis	No		--					
Saint Lucia	No		--					
St Vincent & the Grenadines	No		--					
Trinidad & Tobago	No		--					
Central Asia								
Kazakhstan	No	2005	58.8 (54.0,63.6)	1	C		A1	⁵
Kyrgyzstan	Yes	2013	43.9 (40.6,47.2)	1	B1	National	B2	⁶
Tajikistan	Yes	2004	61.3 (56.8,65.6)	1	B1	City	A1	⁷
Turkmenistan	No		NK					
Uzbekistan	No	2001	51.7 (46.8,56.6)	1	A		A1	⁵
East and South East Asia								
Brunei Darussalam	No		NK					
Cambodia	No		NK					
China	Yes	2012; 2013; 2014; 2015	43.1 (27.5,58.6)	11	A; B1; C	National	A1	⁸⁻¹⁵
Hong Kong (China)	No	2006	85.4 (82.2,88.2)	1	B1	National	A1	¹⁶
Indonesia	Yes	2015	89.2 (85.3,92.3)	1	C	City	B3	¹⁷
Japan	Yes	1994	64.8 (55.0,74.5)	1	C		A1	⁵
Lao PDR	No		NK					
Malaysia	Yes	2007	67.1 (62.9,71.1)	1	B1	National	A1	¹⁸
Mongolia	No		NK					
Myanmar	Yes	2009; 2010	29.5 (26.9,32.2)	2	B1; C	Sub-national	A1; B3	^{19,20}
North Korea	No		--					
Philippines	Yes	2009; 2011	35.2 (15.9,54.5)	7	B1	Sub-national	B3	^{21,22}
Republic of Korea	Yes	2010	48.4 (42.8,54.1)	1	C	National	A1	²³
Singapore	No	2006	42.5 (39.1,45.9)	1	C		A1	⁵
Taiwan	Yes	2010; 2011	91.0 (89.5,92.4)	2	C	National	A1; C	^{24,25}
Thailand	Yes	2005	88.5 (82.6,92.9)	1	C	National	A1	²⁶
Timor Leste	No		NK					
Viet Nam	Yes	2010; 2014	58.3 (42.7,74.0)	11	A; B1	Sub-national	A; B1	^{27,28}
Eastern Europe								
Armenia	Yes	2011; 2012	42.7 (29.3,56.1)	4	B1	City	B2; B3	^{29,30,31}
Azerbaijan	Yes	2012	62.1 (47.1,77.2)	7	B2	City	B2	³²
Belarus	Yes	2015	58.3 (43.3,73.3)	6	B1	City	B2	³³

	New estimate ?	Year of estimate	Anti-HCV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Bosnia & Herzegovina	Yes	2012; 2014	39.9 (27.5,52.4)	6	B1; C	City	B3; A1	34,35
Bulgaria	Yes	2011; 2012; 2013; 2014	68.7 (64.3,73.0)	6	A	Sub-national	B2	29
Czech Republic	Yes	2012; 2013; 2014; 2015	18.3 (14.5,22.1)	4	B1	National	A1; B2	29,36
Estonia	Yes	2010; 2011; 2012; 2013; 2014	79.2 (67.4,91.0)	4	B1; C	City	A1; B2	29,37,38
Georgia	Yes	2012; 2015	69.1 (58.0,80.2)	8	B1; C	Sub-national	A1; B2	39,40
Hungary	Yes	2012; 2013; 2014; 2015	46.6 (30.4,62.8)	4	A	National	A1; B2	29,41-43
Latvia	Yes	2011; 2012; 2013; 2014	74.4 (67.6,81.2)	5	B1	National	B2	29
Lithuania	Yes	2012; 2014	41.1 (38.1,44.2)	2	B1; C	Sub-national	B2	29
Moldova	Yes	2013	50.1 (34.1,66.1)	4	B2	Sub-national	B2	44
Poland	Yes	2005	58.7 (55.1,62.2)	1	A	Sub-national	A1	45
Romania	Yes	2009	83.8 (80.6,87.1)	2	B1; C	City	A1; B2	46,47
Russian Federation	Yes	2009; 2010; 2011; 2012	68.7 (59.6,77.9)	12	B1; B2	City	A1; C	48-51
Slovakia	Yes	2008, 2014	56.1 (35.6,76.7)	2	B1; C	National	A1; B2	29,52
Ukraine	Yes	2013, 2015	53.9 (49.2,58.7)	30	B1	National	B2	53,54
Latin America								
Argentina	No	2001	54.6 (51.1,58.1)	1	B1		A1	5
Belize	No		--					
Bolivia	No		NK					
Brazil	No	2001	63.9 (60.5,67.3)	1	B1		A1	5
Chile	No		NK					
Colombia	Yes	2014	28.8 (26.2,31.6)	1	B1		A1	55
Costa Rica	No		NK					
Ecuador	No		NK					
El Salvador	No		NK					
Guatemala	No		NK					
Guyana	No		NK					
Honduras	No		NK					
Mexico	Yes	2005	95.3 (93.3,97.3)	2	A		A1	56,57
Nicaragua	No		NK					
Panama	No		NK					
Paraguay	No	2006	9.8 (7.7,11.9)	1	C		A1	5
Peru	No		NK					
Suriname	No		NK					
Uruguay	No	2003	21.9 (19.0,24.8)	1	C		A1	5
Venezuela	No		NK					
Middle East & North Africa								
Algeria	No		NK					
Bahrain	No		NK					
Cyprus	Yes	2011; 2012; 2013; 2014	49.7 (44.4,55.0)	4	A; B1	National	B2	29
Egypt	No	1995	49.4 (35.8,63.0)	1	C		A1	5
Iraq	No		NK					

	New estimate ?	Year of estimate	Anti-HCV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Israel	Yes	2010	45.3 (38.1,52.6)	1	C	Sub-national	B2	58
Jordan	No		NK					
Kuwait	No		NK					
Lebanon	Yes	2013	23.4 (15.3,33.3)	1	C	City	A1	59
Libyan Arab Jamahiriya	Yes	2010	94.5 (91.5,96.7)	1	B1	City	A1	60
Morocco	Yes	2011; 2013	53.9 (33.7,74.0)	3	B1	Sub-national	B3	61,62
Occ. Palestinian Terr.	Yes	2010; 2013	41.6 (35.2,47.9)	4	B1	Sub-national	A1; B2	63,64
Oman	No		NK					
Qatar	No		NK					
Saudi Arabia	Yes	2012	77.8 (73.2,81.9)	1	C	City	A1	65
South Sudan	No		--					
Sudan	No		NK					
Syrian Arab Rep.	Yes	2014	3.3 (1.8,5.6)	1	B1	Sub-national	B2	66
Tunisia	Yes	2009	29.1 (25.7,32.6)	1	B1	Sub-national	B2	67
Turkey	Yes	2012; 2013; 2014; 2015	44.9 (41.7,48.2)	5	B1	National	A1; B2	29,68
United Arab Emirates	No		NK					
Yemen	No		NK					
North America								
Canada	Yes	2011; 2012; 2013; 2014	70.6 (60.1,65.4)	24	A; B1	Sub-national	A2; B3; D	69-75
United States	Yes	2013; 2014; 2015; 2016	53.1 (38.1,68.0)	8	C; B2; A	Sub-national	A1; A2	76-81
Pacific Island States & Terr.								
American Samoa	No		NK					
Fed. States of Micronesia	No		NK					
Fiji	No		NK					
French Polynesia	No		NK					
Guam	No		NK					
Kiribati	No		NK					
Marshall Islands	No		NK					
Nauru	No		--					
New Caledonia	No		NK					
Northern Mariana Islands	No		NK					
Palau	No		NK					
Papua New Guinea	No		NK					
Samoa	No		NK					
Solomon Islands	No		NK					
Tonga	No		NK					
Tuvalu	No		--					
Vanuatu	No		NK					
South Asia								
Afghanistan	Yes	2012; 2009	37.8 (27.5,48.1)	10	A; B1; C	Sub-national	A1; B3	82-85
Bangladesh	Yes	2011; 2013	33.9 (22.4,45.4)	24	A; C	City	A1; B3	86,87
Bhutan	No		NK					
India	Yes	2012; 2013; 2014; 2015	40.0 (33.9,46.1)	7	B1; C	Sub-national	A1; A2; C	88-95
Iran	Yes	2012; 2013; 2014	44.1 (28.2,59.9)	5	C; B1; A	Sub-national	A1	96-100
Maldives	Yes	2008	0.7 (0.0,1.7)	2	B1	Sub-national	B2	101

	New estimate ?	Year of estimate	Anti-HCV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Nepal	Yes	2013; 2014; 2015	44.5 (30.8,58.2)	9	B1	Sub-national	A1; B3; C	102-107
Pakistan	Yes	2007; 2008; 2009; 2010; 2011; 2012; 2013	36.5 (0.0,79.1)	5	C; B1	Sub-national	A1	108-111
Sri Lanka	No		NK					
Sub Saharan Africa								
Angola	No		NK					
Benin	No		NK					
Botswana	No		--					
Burkina Faso	No		NK					
Burundi	No		NK					
Cameroon	No		NK					
Cape Verde	No		NK					
Central African Republic	No		--					
Chad	No		NK					
Comoros	No		--					
Congo (Kinshasa)	No							
Cote d'Ivoire	Yes	2014	1.8 (0.0,9.4)	1	B1	City	A1	112
Djibouti	No		NK					
Equatorial Guinea	No		--					
Eritrea	No		--					
Ethiopia	No		NK					
Gabon	No		NK					
Gambia	No		NK					
Ghana	No	2005	40.1 (34.8,45.4)	1	B1		A1	5
Guinea	No		NK					
Guinea-Bissau	No		--					
Kenya	Yes	2013	16.4 (10.9,23.3)	1	C	Sub-national	A1	113
Lesotho	No		--					
Liberia	No		NK					
Madagascar	Yes	2012	5.5 (2.1,9.0)	3	B1	Sub-national	B2	114
Malawi	No		NK					
Mali	No		NK					
Mauritania	No		--					
Mauritius	Yes	2009; 2010; 2011	97.1 (96.0,98.1)	2	B1	National	A1; B3	115,116
Mozambique	Yes	2014	67.1 (62.9,71.2)	2	B1	City	B2; B3	117
Namibia	No		--					
Niger	No		NK					
Nigeria	Yes	2010	5.8 (3.5,8.9)	1	C	City	A1	118
Rep. of the Congo	No		--					
Rwanda	No		NK					
Sao Tome & Principe	No		--					
Senegal	Yes	2011	39.3 (31.1,47.9)	1	B1	City	A1	119
Seychelles	Yes	2011	42.0 (36.8,47.4)	1	B1	National	B2	120
Sierra Leone	No		NK					
Somalia	No		NK					
South Africa	No		NK					
Swaziland	No		NK					
Togo	No		NK					
Uganda	No		NK					
United Rep. of Tanzania	Yes	2011	27.7 (22.4,33.5)	1	A	Sub-national	A1	121
Zambia	No		NK					
Zimbabwe	No		NK					
Western Europe								
Albania	Yes	2011	34.0 (27.5,41.0)	1	B1	City	C	122
Andorra	No		NK					
Austria	Yes	2011; 2012;	60.9 (54.8,67.0)	14	A; B1; C	Sub-national	B2	29

	New estimate ?	Year of estimate	Anti-HCV among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
		2013; 2014						
Belgium	Yes	2011; 2012; 2013; 2014	58.4 (47.0,69.7)	7	B1; C	City	B2	29
Croatia	Yes	2015	36.7 (28.1,45.3)	3	B1	City	A1	123
Denmark	Yes	2011	42.6 (36.1,49.1)	1	B1	Sub-national	A1	124
England	Yes	2011; 2012; 2013	30.7 (26.9,34.6)	4	A; B1; C	Sub-national	A1; C	125-128
Finland	Yes	2014	73.7 (69.9,77.2)	1	B1	National	B2	29
Form. Yug. Rep. Macedonia	Yes	2013	62.2 (59.4,64.9)	1	B1	National	A1	129
France	Yes	2011	64.0 (60.8,67.0)	1	A	Sub-national	A1	130
Germany	Yes	2014	65.0 (60.6,69.4)	8	B1	City	A1	131
Greece	Yes	2012; 2013; 2014	65.7 (61.8,69.5)	12	A	National	B2	29
Greenland	No		--					
Iceland	No	1993	63.0 (59.8,66.2)	1	C		A1	5
Ireland	No	2003	74.6 (72.3,76.9)	1	C		A1	5
Italy	Yes	2011; 2012; 2013; 2014	57.9 (52.5,63.3)	23	B1; C	National	A2; B2	29,132
Liechtenstein	No		--					
Luxembourg	Yes	2005	81.3 (76.2,85.8)	1	A	National	A1	133
Malta	Yes	2011; 2012; 2013; 2014	25.2 (13.1,37.3)	4	A	National	B2	29
Monaco	No		NK					
Montenegro	Yes	2005; 2008	43.4 (39.8,47.1)	2	B1	National	A1	134,135
Netherlands	Yes	2011; 2012; 2013; 2014	55.3 (49.7,60.9)	5	A; B1	National	B2	29
Northern Ireland	No		NK					
Norway	Yes	2010; 2011; 2012	64.8 (60.4,69.1)	3	A	City	B2	29
Portugal	Yes	2013; 2014; 2015; 2016	87.7 (80.5,95.0)	3	B1	National	A1; B2	29,136
San Marino	No		NK					
Scotland	Yes	2012; 2014	52.2 (45.5,58.8)	11	B1	National	B3	137
Serbia	Yes	2014	25.9 (22.1,29.7)	2	B1	Sub-national	B3	138
Slovenia	Yes	2011; 2012; 2013; 2014	30.5 (26.4,34.5)	4	B1	National	B2	29
Spain	Yes	2011; 2012	71.0 (69.5,72.5)	2	B1	City	A1	139,140
Sweden	Yes	2014	81.7 (79.6,83.6)	1	C	National	A1	141
Switzerland	Yes	2014	74.6 (69.3,79.4)	1	B1	National	C	142
Wales	Yes	2006	26.8 (23.4,30.4)	1	A	Sub-national	A1	143

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Appendix 13: Grade and sources for country-level estimates of HBsAg prevalence among people who inject drugs

	New estimate?	Year of estimate	HBsAg among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Australasia								
Australia	Yes	2006; 2007	3.8 (2.4,5.2)	2	B1/C	City	A1	1,2
New Zealand	No	1994	2.8 (1.2,4.4)	1	C		A1	3
Caribbean								
Antigua & Barbuda	No		--					
Bahamas	No		NK					
Barbados	No		--					
Bermuda	No		NK					
Comm. of Puerto Rico	No		NK					
Cuba	No		--					
Dominica	No		--					
Dominican Republic	No		NK					
Grenada	No		--					
Haiti	No		NK					
Jamaica	No		NK					
Saint Kitts & Nevis	No		--					
Saint Lucia	No		--					
St Vincent & the Grenadines	No		--					
Trinidad & Tobago	No		--					
Central Asia								
Kazakhstan	No	2002	7.9 (5.7,10.1)	1	A		A1	3
Kyrgyzstan	No		NK					
Tajikistan	No		NK					
Turkmenistan	No		NK					
Uzbekistan	No		NK					
East and South East Asia								
Brunei Darussalam	No		NK					
Cambodia	No		NK					
China	Yes	2012; 2013; 2014	23.4 (10.4,36.4)	3	C	Sub-national	A1	4-6
Hong Kong (China)	No		NK					
Indonesia	No		NK					
Japan	No	1993	3.2 (2.0,4.3)	1	C		A1	3
Lao PDR	No		NK					
Malaysia	No		NK					
Mongolia	No		NK					
Myanmar	Yes	2009; 2010	17.1 (14.9,19.2)	2	B1/C	Sub-national	B3; A1	7,8
North Korea	No		--					
Philippines	No		NK					
Republic of Korea	Yes	2010	6.6 (4.1,9.9)	1	C	National	A1	9
Singapore	No	2006	8.5 (7.0,10.0)	1	C		A1	3
Taiwan	Yes	2011	8.0 (3.3,15.9)	1	C	National	C	10
Thailand	Yes	2005	30.5 (28.2,32.9)	1	B1	City	A1	11
Timor Leste	No		NK					
Viet Nam	Yes	2007; 2008; 2009; 2010	14.7 (12.2,17.2)	11	A/B1	Sub-national	A1	12,13
Eastern Europe								
Armenia	No		NK					
Azerbaijan	Yes	2012	10.4 (7.2,13.5)	7	B2	City	B3	14
Belarus	Yes	2015	11.2 (4.9,17.5)	6	B1	City	B2	15

	New estimate?	Year of estimate	HBsAg among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Bosnia & Herzegovina	Yes	2012; 2014	0.5 (0.0,1.4)	2	B1, C	City	B3; A1	16,17
Bulgaria	Yes	2011; 2012; 2013; 2014	6.6 (4.7,8.5)	6	A	Sub-national	B2	18
Czech Republic	No	2010	15.1 (12.5,17.7)	1	C		A1	3
Estonia	Yes	2010; 2013	4.7 (3.1,6.3)	2	C/B1	City	B2	18
Georgia	No	2003	7.2 (5.4,9.0)	1	A		A1	3
Hungary	Yes	2015	2.2 (1.2,3.7)	1	A	National	B2	18
Latvia	Yes	2011; 2012; 2013	2.8 (1.7,3.9)	3	B1	Sub-national	B2	18
Lithuania	Yes	2014	10.5 (6.6,15.6)	1	B1	City	B2	18
Moldova	Yes	2013	5.7 (1.1,10.3)	4	B2	City	B2	19
Poland	No	2005	4.9 (1.2,8.5)	1	A		A1	3
Romania	Yes	2009	5.2 (3.3,7.2)	2	C/B1	City	A1; B2	20,21
Russian Federation	No	2002	9.0 (7.0,11.0)	1	C		A1	3
Slovakia	Yes	2012-2015	1.7 (0.0,4.1)	5	B1	City	B2	18
Ukraine	Yes	2015	5.6 (5.1,6.0)	1	B1	National	B2	22
Latin America								
Argentina	No	2001	8.6 (6.3-10.9)	1	B1		A1	3
Belize	No		--					
Bolivia	No		NK					
Brazil	No	2000	2.3 (1.1-3.5)	1	C		A1	3
Chile	No		NK					
Colombia	No		NK					
Costa Rica	No		NK					
Ecuador	No		NK					
El Salvador	No		NK					
Guatemala	No		NK					
Guyana	No		NK					
Honduras	No		NK					
Mexico	No		NK					
Nicaragua	No		NK					
Panama	No		NK					
Paraguay	No		NK					
Peru	No		NK					
Suriname	No		NK					
Uruguay	No	2003	4.5 (2.8,6.2)	1	C		A1	3
Venezuela	No		NK					
Middle East & North Africa								
Algeria	No		NK					
Bahrain	No		NK					
Cyprus	Yes	2011; 2012; 2013; 2014	1.4 (0.0,2.8)	4	A/B1	National	B2	18
Egypt	No	1995	13.5 (10.9,16.0)	1	C		A1	3
Iraq	No		NK					
Israel	Yes	2010	6.3 (3.3,10.7)	1	C	Sub-national	B2	23
Jordan	No		NK					
Kuwait	No		NK					
Lebanon	Yes	2008	2.5 (0.3,8.6)	1	C	City	A1	24
Libyan Arab Jamahiriya	No		NK					
Morocco	No		NK					
Occ. Palestinian Terr.	Yes	2010	6.3 (3.3,10.7)	1	B1	Sub-national	B2	25
Oman	No		NK					
Qatar	No		NK					
Saudi Arabia	Yes	2012	7.7 (5.2,10.8)	1	C	City	A1	26
South Sudan	No		--					
Sudan	No		NK					
Syrian Arab Rep.	Yes	2014	0.5 (0.1,1.8)	1	B1	Sub-national	B2	27
Tunisia	Yes	2009	3.1 (2.0,4.7)	1	B1	Sub-national	B2	28
Turkey	Yes	2013; 2015	5.4 (4.1,6.7)	5	B1	National	B2; A1	18,29
United Arab Emirates	No		NK					

	New estimate?	Year of estimate	HBsAg among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Yemen	No		NK					
North America								
Canada	No		NK					
United States	Yes	2011	4.8 (3.0,7.2)	1	A	Sub-national	A1	30
Pacific Island States & Terr.								
American Samoa	No		NK					
Fed. States of Micronesia	No		NK					
Fiji	No		NK					
French Polynesia	No		NK					
Guam	No		NK					
Kiribati	No		NK					
Marshall Islands	No		NK					
Nauru	No		--					
New Caledonia	No		NK					
Northern Mariana Islands	No		NK					
Palau	No		NK					
Papua New Guinea	No		NK					
Samoa	No		NK					
Solomon Islands	No		NK					
Tonga	No		NK					
Tuvalu	No		--					
Vanuatu	No		NK					
South Asia								
Afghanistan	Yes	2009; 2012	6.0 (5.0,7.1)	9	B1/A	Sub-national	B3; A1	31-33
Bangladesh	Yes	2013	7.0 (4.7,10.0)	1	C	City	A1	34
Bhutan	No		NK					
India	Yes	2012; 2013; 2015	4.7 (0.9,8.5)	6	C/B1	Sub-national	A1; C	35-40
Iran	Yes	2012; 2013; 2014	3.9 (2.9,4.9)	6	C/B1/A	Sub-national	A1	41-46
Maldives	Yes	2008	0.5 (0.0,1.3)	2	B1	City	B2	47
Nepal	Yes	2014; 2015	1.8 (0.5,3.2)	5	B1	Sub-national	B3; C; A1	48-52
Pakistan	No	2003; 2004	6.8 (6.0,7.5)	1	C	Sub-national	A1	3
Sri Lanka	No		NK					
Sub Saharan Africa								
Angola	No		NK					
Benin	No		NK					
Botswana	No		--					
Burkina Faso	No		NK					
Burundi	No		NK					
Cameroon	No		NK					
Cape Verde	No		NK					
Central African Republic	No		--					
Chad	No		NK					
Comoros	No		--					
Congo (Kinshasa)	No		NK					
Cote d'Ivoire	Yes	2014	10.5 (4.0,21.5)	1	B1	City	A1	53
Djibouti	No		NK					
Equatorial Guinea	No		--					
Eritrea	No		--					
Ethiopia	No		NK					
Gabon	No		NK					
Gambia	No		NK					
Ghana	No		NK					
Guinea	No		NK					
Guinea-Bissau	No		--					
Kenya	Yes	2013	5.4 (3.3,8.2)	1	B2	City	A1	54
Lesotho	No		--					
Liberia	No		NK					
Madagascar	Yes	2012	5.0 (3.3,6.8)	3	B1	City	B2	55

	New estimate?	Year of estimate	HBsAg among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Malawi	No		NK					
Mali	No		NK					
Mauritania	No		--					
Mauritius	Yes	2009; 2011	6.1 (4.7,7.6)	2	B1	National	B3; A1	56,57
Mozambique	No		NK					
Namibia	No		--					
Niger	No		NK					
Nigeria	Yes	2010	6.7 (4.3,10.0)	1	C	City	A1	58
Rep. of the Congo	No		NK					
Rwanda	No		NK					
Sao Tome & Principe	No		--					
Senegal	No		NK					
Seychelles	Yes	2011	0.3 (0.0,1.6)	1	B1	National	B2	59
Sierra Leone	No		NK					
Somalia	No		NK					
South Africa	No		NK					
Swaziland	No		NK					
Togo	No		NK					
Uganda	No		NK					
United Rep. of Tanzania	Yes	2014	1.1 (0.5,2.4)	1	B1	City	B3	60
Zambia	No		NK					
Zimbabwe	No		NK					
Western Europe								
Albania	No		NK					
Andorra	No		NK					
Austria	Yes	2011; 2012; 2013; 2014	3.9 (2.4,5.5)	4	A	City	B2	18
Belgium	Yes	2011; 2012; 2013; 2014	2.1 (1.4,2.8)	7	B1, C	City	B2	18
Croatia	Yes	2007	0.9 (0.0,1.8)	3	B1	City	A1	61
Denmark	Yes	2007	1.3 (0.3,3.6)	1	B1	Sub-national	A1	62
England	No		NK					
Finland	No		NK					
Form. Yug. Rep. Macedonia	No		NK					
France	Yes	2011	0.8 (0.3,1.6)	1	A	Sub-national	B2	18
Germany	Yes	2014	0.7 (0.3,1.0)	8	B1	City	A1	63
Greece	Yes	2011; 2012; 2013; 2014	2.4 (1.8,3.0)	12	A	National	B2	18
Greenland	No		--					
Iceland	No		NK					
Ireland	No	2003	0.0 (0.0,0.0)	1	C		A1	3
Italy	No	1990; 1993	5.1 (0.9,9.3)	2	C		A1	3
Liechtenstein	No		--					
Luxembourg	Yes	2005	0.8 (0.1,3.0)	1	A	National	A1	64
Malta	No		NK					
Monaco	No		NK					
Montenegro	No	2008	0.0 (0.0,0.0)	1	C		A1	3
Netherlands	No	2000	3.0 (1.6,4.4)	1	A		A1	3
Northern Ireland	No		NK					
Norway	Yes	2010; 2011; 2012	1.3 (0.3,2.4)	3	A	City	B2	18
Portugal	Yes	2011; 2012; 2013; 2014	5.0 (4.1,5.9)	4	B1	National	B2	18
San Marino	No		NK					
Scotland	Yes	2014	0.9 (0.6,1.4)	1	B1	National	B3	65
Serbia	Yes	2014	3.6 (2.0,5.2)	2	B1	Sub-national	B3	66
Slovenia	No	2002	3.4 (1.9,4.9)	1	B1		A1	3
Spain	Yes	2006	1.8 (0.4,5.2)	1	B1	City	B1	67
Sweden	Yes	2010	1.9 (0.2,6.6)	1	B1	Sub-national	A1	68
Switzerland	No	1996	4.0 (2.4,5.6)	1	C		A1	3

	New estimate?	Year of estimate	HBsAg among PWID % (range)	No. estimates	Estimate(s) grade	Geographic area	Literature grade	References
Wales	No		NK					

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Appendix 14a: Source for country-level estimates of sociodemographic and risk characteristics of people who inject drugs

	% women		% young injectors ¹		% homeless or unstable housing		% history of arrest		% history of incarceration	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Eastern Europe										
Armenia	1.9 (0.3, 3.5)	148,149	17.7 (9.6, 25.9)	148,149	--	--	--	--	--	--
Azerbaijan	1.8 (1.1, 2.6)	150,151	--	--	--	--	--	--	27.9 (16.5, 39.2)	150
Belarus	36.9 (28.8, 45.0)	48,152	20.1 (10.3, 30.0)	152	--	--	--	--	--	--
Bosnia & Herzegovina	10.1 (6.5, 13.6)	153	17.3 (9.1, 25.4)	--	--	--	--	--	41.8 (32.3, 51.3)	153,154
Bulgaria	18.9 (17.1, 20.8)	155,156	--	--	3.2 (2.4, 3.9)	155,157	64.5 (61.6, 67.3)	157	--	--
Czech Republic	21.7 (16.6, 27.4)	158	42.6 (28.3, 57.8)	159	48.1 (41.9, 54.9)	158	--	--	--	--
Estonia	19.5 (17.1, 21.8)	161-171	37.6 (27.3, 47.9)	161,162,165,168-170	--	--	--	--	57.0 (50.1, 63.9)	161,163,165,166,170
Georgia	1.6 (1.0, 2.1)	172-176	11.5 (8.1, 14.8)	173-175,177	2.8 (1.0, 5.9)	172	38.5 (28.4, 48.7)	175	--	--
Hungary	26.0 (23.9, 28.0)	178-185	31.0 (24.9, 37.1)	178-185	19.8 (6.6, 32.9)	181,182,185,186	41.6 (34.7, 48.8)	182	43.0 (39.6, 46.4)	185,186
Latvia	21.9 (7.4, 36.4)	165,188,189	36.1 (20.6, 51.5)	165,188,189	1.2 (0.4, 2.8)	189	--	--	48.3 (43.9, 52.7)	165,188,189
Lithuania	18.7 (15.9, 21.4)	189,190	18.0 (14.4, 22.1)	189	6.0 (3.9, 8.8)	189	--	--	70.7 (66.0, 75.2)	189
Moldova	20.0 (15.2, 24.8)	192,193	13.8 (6.9, 20.8)	193	7.1 (4.7, 10.4)	192	--	--	--	--
Poland	28.5 (26.0, 31.0)	194-197	38.2 (17.1, 59.3)	194,197,198	18.4 (16.2, 20.5)	194,198	--	--	44.0 (39.6, 48.3)	194,197,198
Romania	19.2 (15.7, 22.7)	192,199-205	41.3 (20.2, 62.3)	200,204,205	16.6 (1.9, 31.3)	192,200,205	52.9 (49.5, 56.3)	200,205	40.3 (27.4, 53.3)	192,199,205
Russian Federation	27.9 (24.0, 31.7)	48,206-217	49.7 (42.3, 57.2)	208,211,212,214	4.4 (2.2, 6.6)	211,213,214,217	26.5 (22.4, 30.8)	211	33.8 (30.5, 37.2)	213
Slovakia	30.1 (27.0, 33.2)	219	--	--	--	--	--	--	--	--
Ukraine	23.2 (20.8, 23.6)	48,220-229	18.4 (16.7, 20.1)	220,222,225,227,228	0.4 (0.2, 0.8)	222,225,229	60.4 (50.8, 70.0)	223,224,229	35.3 (30.1, 40.6)	220-222
Western Europe										
Albania	--	--	--	--	27.3 (19.6, 36.1)	192	--	--	47.1 (38.0, 56.4)	192
Andorra	--	--	--	--	--	--	--	--	--	--
Austria	35.4 (14.7, 56.0)	496-498	44.9 (36.9, 53.0)	498	14.7 (9.6, 21.3)	498	--	--	--	--
Belgium	21.9 (20.0, 23.9)	499-504	22.2 (8.8, 35.6)	499,504	27.8 (15.4, 40.2)	499-504	--	--	--	--
Croatia	18.6 (16.0, 21.3)	505-510	22.1 (10.7, 33.5)	--	16.1 (8.6, 23.7)	510,511	--	--	45.2 (41.1, 49.4)	508,510,511
Denmark	20.2 (12.2, 28.1)	513-515	26.8 (14.2, 42.9)	514	26.8 (14.2, 42.9)	514	--	--	--	--
England	33.0 (20.1, 45.9)	335,336,516-519	19.1 (16.0, 22.3)	335,336	40.7 (26.4, 55.0)	335,336,519,520	--	--	47.2 (41.4, 53.0)	336
Finland	--	--	--	--	--	--	--	--	--	--
Former Yugoslav Rep. of Macedonia	9.7 (8.3, 11.2)	522	54.1 (51.7, 56.5)	522	--	--	--	--	--	--
France	18.9 (16.9, 21.2)	523	--	--	--	--	--	--	--	--
Germany	24.5 (21.3, 27.6)	526-531	14.2 (5.2, 23.3)	526,530,531	14.5 (10.7, 18.2)	529,531	--	--	76.7 (67.8, 85.5)	526,528,529,531
Greece	17.4 (12.1, 22.6)	533-541	--	--	34.5 (33.1, 36.0)	537,539	--	--	38.1 (17.4, 58.8)	537,539,541
Greenland	--	--	--	--	--	--	--	--	--	--
Iceland	41.7 (32.3, 51.5)	543	--	--	34.3 (25.4, 44.0)	543	64.8 (55.0, 73.8)	543	38.0 (28.8, 47.8)	543
Ireland	27.0 (13.3, 40.6)	544-547	8.7 (5.9, 12.2)	545	5.5 (3.4, 7.6)	544,545	--	--	69.6 (57.3, 80.1)	544
Italy	32.8 (0.9, 64.7)	548-550	43.9 (41.4, 46.4)	548	14.7 (13.5, 16.0)	550	--	--	8.4 (4.6, 12.2)	550
Luxembourg	--	--	--	--	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--	--	--	--
Monaco	--	--	--	--	--	--	--	--	--	--
Montenegro	8.0 (5.9, 10.1)	552,553	38.7 (33.4, 44.3)	553	--	--	61.5 (55.9, 66.8)	552	42.7 (37.3, 48.2)	553
Netherlands	25.0 (18.1, 33.0)	554	--	--	--	--	--	--	--	--
Northern Ireland	--	--	--	--	--	--	--	--	--	--
Norway	32.4 (25.8, 38.9)	555-561	46.1 (41.8, 50.5)	556,559	26.9 (16.9, 36.9)	555,556,560,561	78.0 (73.1, 82.4)	556	68.0 (60.5, 74.9)	559
Portugal	27.4 (20.1, 35.7)	562	--	--	--	--	--	--	--	--
San Marino	--	--	--	--	--	--	--	--	--	--

	% women		% young injectors ¹		% homeless or unstable housing		% history of arrest		% history of incarceration	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Scotland	31.0 (28.4, 33.5)	332,333,337-339,563	10.3 (7.5, 13.1)	332,333,337-339	24.8 (20.3, 29.3)	332,338,339	--	--	60.7 (55.3, 66.0)	338,339,563
Serbia	14.4 (8.6, 20.2)	192,553,564-566	29.6 (16.0, 43.3)	553,564,566	1.1 (0.2, 2.0)	566	--	--	42.8 (29.8, 55.8)	192,553,565,566
Slovenia	23.2 (19.7, 26.6)	567-569	10.8 (6.9, 15.9)	568	7.8 (4.5, 12.4)	568	--	--	--	--
Spain	19.0 (16.9, 21.2)	570-584	18.5 (12.1, 25.0)	571-575,577-579,581,583	24.9 (15.4, 34.4)	576,583,584	50.2 (47.7, 52.8)	582	51.8 (37.2, 66.5)	576,579,580,584
Sweden	27.6 (25.5, 29.6)	--	--	--	34.9 (21.2, 48.7)	585-589	77.0 (74.0, 79.8)	590	64.2 (47.3, 81.1)	586,589,590
Switzerland	21.7 (19.5, 24.0)	592	--	--	12.8 (11.0, 14.7)	592	--	--	--	--
Wales	26.0 (22.8, 29.4)	334	27.4 (24.0, 31.0)	334	--	--	--	--	--	--
East and South East Asia										
Brunei Darussalam	--	--	--	--	--	--	--	--	--	--
Cambodia	11.6 (7.9, 15.3)	46,47	--	--	17.6 (14.4, 20.8)	--	--	--	29.4 (21.4, 38.5)	47
China	26.5 (20.9, 32.1)	48-79	25.4 (16.7, 34.0)	53,54,56-60,66,67,73-75,80	8.9 (6.3, 12.2)	71	--	--	78.4 (73.8, 82.5)	60
Hong Kong (China)	15.9 (13.0, 19.1)	91	--	--	--	--	--	--	--	--
Indonesia	5.4 (3.8, 7.1)	92-100	14.4 (5.4, 23.5)	97,99,101	--	--	16.0 (15.0, 17.1)	--	--	--
Japan	--	--	--	--	--	--	--	--	--	--
Lao PDR	--	--	--	--	--	--	--	--	--	--
Malaysia	4.4 (2.3, 6.5)	104-107	--	--	--	--	--	--	--	--
Mongolia	--	--	--	--	--	--	--	--	--	--
Myanmar	1.9 (1.0, 2.8)	76,108	29.0 (24.3, 33.7)	108-115	--	--	18.9 (14.5, 21.7)	110	32.9 (25.7, 40.8)	111
Philippines	4.8 (3.4, 6.3)	116,117	55.5 (37.0, 73.9)	116	--	--	--	--	--	--
Republic of Korea	10.6 (7.7, 13.5)	119,120	--	--	--	--	--	--	--	--
Singapore	--	--	--	--	--	--	--	--	--	--
Taiwan	13.8 (12.7, 14.9)	121-127	16.7 (12.6, 21.6)	127	0.7 (0.3, 1.3)	126	--	--	89.4 (87.7, 91.2)	125,127
Thailand	15.2 (10.3, 20.1)	128-136	10.9 (5.9, 16.0)	133-136	--	--	--	--	75.7 (72.5, 78.9)	128,131
Timor Leste	--	--	--	--	--	--	--	--	--	--
Viet Nam	9.1 (5.1, 13.1)	48,137-140	27.7 (20.8, 34.5)	139,141-144	8.6 (0.3, 26.1)	138,139,145	--	--	--	--
South Asia										
Afghanistan	--	--	48.4 (37.4, 59.5)	343-348	--	--	--	--	51.8 (39.9, 63.7)	344-347,349
Bangladesh	3.2 (2.8, 3.7)	350,351	28.7 (26.3, 31.1)	351	14.0 (4.6, 23.3)	352,353	--	--	--	--
Bhutan	--	--	--	--	--	--	--	--	--	--
India	6.4 (5.2, 7.5)	354-366	42.2 (37.3, 47.0)	360,363,366-383	43.6 (25.4, 61.9)	355,365-367,370,380,381,384-386	--	--	50.8 (38.9, 62.7)	359,370
Iran	3.8 (2.9, 4.6)	242,392-414	18.7 (14.3, 23.0)	392,393,401,403-405,409,415-418	32.8 (23.5, 42.1)	393,405,407,412,417,419	--	--	69.0 (63.1, 74.8)	393,398,400,401,404-406,411,414,415,418,420
Maldives	3.2 (1.1, 5.2)	422	39.1 (33.4, 44.9)	422	--	--	--	--	76.6 (71.9, 81.4)	422
Nepal	8.9 (4.7, 13.1)	423-428	37.8 (22.1, 53.5)	425,427-439	1.2 (0.4, 2.0)	429,436	80.6 (76.0, 84.7)	431	68.4 (56.7, 80.1)	424,426,430,435,436
Pakistan	0.9 (0.1, 1.7)	440-443	23.1 (19.6, 26.7)	441-446	23.1 (18.3, 28.0)	441-447	--	--	52.1 (18.4, 85.7)	440,447,448
Sri Lanka	2.1 (0.9, 4.4)	451	8.6 (5.8, 12.2)	451	2.1 (0.9, 4.4)	451	--	--	--	--
Central Asia										
Kazakhstan	11.3 (9.5, 13.1)	41,42	--	--	13.5 (10.9, 16.5)	42	--	--	--	--
Kyrgyzstan	14.6 (8.3, 20.9)	41-43	6.7 (5.2, 8.6)	43	17.6 (15.1, 20.2)	42	--	--	--	--
Tajikistan	16.6 (12.4, 20.9)	41,44,45	--	--	--	--	--	--	--	--
Turkmenistan	--	--	--	--	--	--	--	--	--	--
Uzbekistan	--	--	--	--	--	--	--	--	--	--
Caribbean										
Bahamas	--	--	--	--	--	--	--	--	--	--
Bermuda	--	--	--	--	--	--	--	--	--	--
Comm. of Puerto Rico	11.1 (8.2, 14.0)	36,37	12.2 (6.3, 20.8)	38	21.5 (17.5, 25.5)	36,38	--	--	82.4 (79.0, 85.7)	39,40

	% women		% young injectors ¹		% homeless or unstable housing		% history of arrest		% history of incarceration	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Dominican Republic	--	--	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--	--	--
Jamaica	--	--	--	--	--	--	--	--	--	--
Latin America										
Argentina	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--
Chile	--	--	--	--	--	--	--	--	--	--
Colombia	8.9 (5.3, 12.5)	230-232	53.8 (46.3, 61.3)	230-232	--	--	--	--	--	--
Costa Rica	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--
El Salvador	--	--	--	--	--	--	--	--	--	--
Guatemala	--	--	--	--	--	--	--	--	--	--
Guyana	--	--	--	--	--	--	--	--	--	--
Honduras	--	--	--	--	--	--	--	--	--	--
Mexico	17.2 (4.8, 29.7)	233-236	--	--	19.6 (13.0, 26.3)	233-236	91.0 (85.0, 97.0)	233,234,236	71.0 (68.2, 74.4)	236
Nicaragua	12.2 (4.1, 26.2)	238	29.3 (16.1, 45.4)	238	--	--	--	--	--	--
Panama	--	--	--	--	--	--	--	--	--	--
Paraguay	--	--	--	--	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	--	--	--
Suriname	--	--	--	--	--	--	--	--	--	--
Uruguay	--	--	--	--	--	--	--	--	--	--
Venezuela	--	--	--	--	--	--	--	--	--	--
North America										
Canada	32.6 (29.4, 35.8)	260-285	28.4 (20.9, 35.9)	261,263,266,273-275,279,282,286	41.9 (30.6, 53.1)	263-266,269,271,274,280,282	--	--	82.8 (80.6, 84.8)	274
United States	29.6 (28.4, 30.9)	37,39,233,287-331	13.5 (9.8, 26.4)	291,292,294,296,299,300,306,309,312,316,322,327,332-340	51.5 (40.9, 62.1)	37,287,288,290,291,294,298,300,301,303,306-309,312,314,317,318,322,325-327,330,331,341,342	90.3 (88.4, 92.3)	304,328	70.7 (59.2, 82.3)	37,288,290,301,304,300
Pacific Island States & Territories										
American Samoa	--	--	--	--	--	--	--	--	--	--
Fed. States of Micronesia	--	--	--	--	--	--	--	--	--	--
Fiji	--	--	--	--	--	--	--	--	--	--
French Polynesia	--	--	--	--	--	--	--	--	--	--
Guam	--	--	--	--	--	--	--	--	--	--
Kiribati	--	--	--	--	--	--	--	--	--	--
Marshall Islands	--	--	--	--	--	--	--	--	--	--
New Caledonia	--	--	--	--	--	--	--	--	--	--
Northern Mariana Islands	--	--	--	--	--	--	--	--	--	--
Palau	--	--	--	--	--	--	--	--	--	--
Papua New Guinea	--	--	--	--	--	--	--	--	--	--
Samoa	--	--	--	--	--	--	--	--	--	--
Solomon Islands	--	--	--	--	--	--	--	--	--	--
Tonga	--	--	--	--	--	--	--	--	--	--

	% women		% young injectors ¹		% homeless or unstable housing		% history of arrest		% history of incarceration	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Vanuatu	--	--	--	--	--	--	--	--	--	--
Australasia										
Australia	33.1 (30.7, 35.4)	1-30	14.9 (9.5, 20.3)	5,10,14,15,18,21,23	17.5 (12.5, 22.5)	9,13,15,20,23,28	--	--	52.8 (44.6, 60.9)	5-8,13,20,22,24,28
New Zealand	34.4 (32.2, 36.6)	31-35	--	--	12.6 (6.9, 20.6)	35	81.6 (72.7, 88.5)	35	44.7 (34.9, 54.8)	35
Sub Saharan Africa										
Angola	--	--	--	--	--	--	--	--	--	--
Benin	2.9 (1.5, 4.4)	452,453	17.7 (14.3, 21.0)	452,453	--	--	--	--	--	--
Botswana	--	--	--	--	--	--	--	--	--	--
Burkina Faso	--	--	--	--	--	--	--	--	--	--
Burundi	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--
Cape Verde	--	--	--	--	--	--	--	--	--	--
Central African Rep.	--	--	--	--	--	--	--	--	--	--
Chad	--	--	--	--	--	--	--	--	--	--
Comoros	--	--	--	--	--	--	--	--	--	--
Dem. Republic of Congo	--	--	5.1 (1.7, 11.5)	--	--	--	--	--	--	--
Cote d'Ivoire	7.0 (1.9, 17.0)	455	--	--	10.5 (4.0, 21.5)	455	--	--	56.1 (42.4, 69.3)	455
Djibouti	--	--	--	--	--	--	--	--	--	--
Equatorial Guinea	--	--	--	--	--	--	--	--	--	--
Eritrea	--	--	--	--	--	--	--	--	--	--
Ethiopia	--	--	--	--	--	--	--	--	--	--
Gabon	--	--	--	--	--	--	--	--	--	--
Gambia	--	--	--	--	--	--	--	--	--	--
Ghana	20.0 (12.3, 29.8)	456	6.7 (2.5, 14.1)	456	--	--	--	--	--	--
Guinea	--	--	--	--	--	--	--	--	--	--
Guinea-Bissau	--	--	--	--	--	--	--	--	--	--
Kenya	17.8 (13.3, 22.4)	48,457-465	23.5 (14.6, 32.5)	457,458,460,461,464,466	--	--	88.7 (82.5, 93.3)	463	--	--
Lesotho	--	--	--	--	--	--	--	--	--	--
Liberia	--	--	26.7 (21.7, 32.1)	--	--	--	--	--	--	--
Madagascar	19.2 (1.9, 36.5)	468	43.6 (11.0, 76.2)	468,469	--	--	--	--	--	--
Malawi	--	--	--	--	--	--	--	--	--	--
Mali	--	--	--	--	--	--	--	--	--	--
Mauritania	--	--	--	--	--	--	--	--	--	--
Mauritius	7.2 (5.7, 8.8)	470,471	12.8 (10.8, 14.8)	470,471	--	--	--	--	79.6 (75.8, 83.0)	471
Mozambique	5.1 (3.1, 7.0)	473	--	--	--	--	--	--	--	--
Namibia	--	--	--	--	--	--	--	--	--	--
Niger	--	--	--	--	--	--	--	--	--	--
Nigeria	6.2 (4.9, 7.6)	48#1870,474	19.6 (8.0, 31.1)	474-476	--	--	--	--	--	--
Rwanda	--	--	--	--	--	--	--	--	--	--
Sao Tome & Principe	--	--	--	--	--	--	--	--	--	--
Senegal	--	--	--	--	--	--	--	--	--	--
Seychelles	3.8 (2.0, 6.4)	480	28.0 (23.4, 33.1)	480	--	--	--	--	--	--
Sierra Leone	7.4 (4.5, 11.3)	481	10.4 (6.6, 15.5)	481	--	--	--	--	--	--
Somalia	--	--	--	--	--	--	--	--	--	--
South Africa	19.1 (15.5, 22.8)	483	--	--	39.9 (21.1, 58.7)	483	--	--	41.5 (32.5, 51.0)	484

	% women		% young injectors ¹		% homeless or unstable housing		% history of arrest		% history of incarceration	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Swaziland	--	--	--	--	--	--	--	--	--	--
Togo	9.7 (6.4, 13.8)	485	9.7 (6.4, 13.8)	485	13.0 (9.2, 17.6)	485	--	--	--	--
Uganda	--	--	--	--	--	--	--	--	--	--
United Rep. of Tanzania	13.4 (8.3, 18.4)	486-494	19.4 (11.5, 27.4)	489-491,493,494	23.7 (10.0, 37.3)	486,493,494	73.8 (46.7, 93.7)	488,490,494	35.2 (32.0, 38.4)	488,492
Zambia	--	--	--	--	--	--	--	--	--	--
Zimbabwe	--	--	--	--	--	--	--	--	--	--
Middle East and North Africa										
Algeria	--	--	36.8 (27.2, 47.4)	239	--	--	--	--	--	--
Bahrain	--	--	--	--	--	--	--	--	--	--
Cyprus	13.1 (9.8, 16.5)	240,241	--	--	--	--	--	--	27.5 (14.6, 43.9)	240
Egypt	--	--	--	--	--	--	--	--	--	--
Iraq	1.7 (0.2, 5.9)	242	--	--	--	--	--	--	--	--
Israel	1.5 (0.3, 4.3)	243	--	--	8.0 (4.7, 12.7)	243	--	--	95.5 (91.6, 97.9)	243
Jordan	--	--	--	--	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--	--	--	--	--
Lebanon	1.1 (0.0, 5.8)	244	39.3 (33.0, 45.6)	244,245	--	--	--	--	85.2 (75.6, 92.1)	245
Libyan Arab Jamahiriya	1.5 (0.5, 3.5)	246	19.5 (15.4, 24.2)	246	--	--	--	--	--	--
Morocco	2.3 (1.1, 3.5)	247-249	9.1 (4.0, 14.3)	248-250	11.1 (4.6, 17.7)	248,249	--	--	77.0 (70.2, 83.9)	248,249
Occ. Palestinian Terr.	0.7 (0.1, 1.8)	251,252	--	--	--	--	--	--	93.5 (89.1, 96.5)	251
Oman	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	--	13.0 (9.7, 16.8)	253	--	--	--	--	--	--
South Sudan	--	--	--	--	--	--	--	--	--	--
Sudan	--	--	--	--	--	--	--	--	--	--
Syrian Arab Rep.	--	--	24.4 (20.2, 28.9)	254	--	--	--	--	--	--
Tunisia	9.0 (7.0, 11.3)	255	14.6 (12.2, 17.2)	256	4.8 (3.3, 6.6)	255	--	--	--	--
Turkey	4.5 (3.9, 5.1)	257,258	71.8 (70.4, 73.0)	257	--	--	--	--	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	--
Yemen	--	--	--	--	--	--	--	--	--	--

Notes:

-- Indicates that although there is evidence that injecting drug use is occurring in this country, no eligible studies involving PWID were located that examined this characteristic.

1. "Young injectors" were defined as younger than 25 years where possible. Some countries had studies that used slightly different age groupings.

The following countries are not listed in this table, as we did not find documented evidence or reports of injecting drug use in these countries: Antigua and Barbuda, Barbados, Belize, Botswana, Central African Republic, Comoros, Cuba, Democratic People's Republic of Korea, Dominica, Equatorial Guinea, Eritrea, Greenland, Grenada, Guinea-Bissau, Lesotho, Liechtenstein, Mauritania, Namibia, Nauru, Republic of Congo, Saint Kitts and Nevis, Saint Lucia, Sao Tome and Principe, Saint Vincent and Grenadines, South Sudan, Trinidad and Tobago, and Tuvalu.

Please see **Appendix 8** for decision rules and data extraction procedures for these characteristics.

Appendix 14b: Source for country-level estimates of sociodemographic and risk characteristics of people who inject drugs

	% recent sex work		% recent injecting risk ¹		% recent sexual risk ²		% main drug injected opioids ³		% main drug injected stimulants ³	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Eastern Europe										
Armenia	--	--	40.6 (14.7, 66.5)	148,149	52.8 (34.8, 70.8)	148,149	--	--	--	--
Azerbaijan	49.7 (44.1, 55.2)	150	66.0 (53.6, 78.3)	150,151	65.5 (56.1, 75.0)	150,151	99.6 (99.0, 100.0)	151	0.9 (0.3, 1.6)	151
Belarus	7.4 (3.9, 10.9)	48,152	12.0 (7.0, 17.0)	152	9.5 (6.8, 12.8)	48	83.8 (74.8, 92.9)	48,152	27.0 (13.7, 40.4)	152
Bosnia & Herzegovina	--	--	25.3 (9.3, 41.4)	153	27.2 (18.2, 36.1)	153	98.6 (97.4, 99.7)	153	0.2 (0.0, 0.5)	153
Bulgaria	9.0 (7.2, 11.0)	155	47.0 (44.7, 49.3)	155,156	36.0 (32.7, 39.3)	156	94.3 (92.6, 95.8)	156	16.8 (15.2, 18.5)	156,157
Czech Republic	--	--	--	--	--	--	21.6 (17.3, 26.3)	160	80.5 (75.9, 84.5)	160
Estonia	--	--	27.4 (21.7, 33.1)	162,164,169,170	51.9 (48.3, 55.6)	168,170	71.1 (61.5, 80.8)	161-163,168,170	33.6 (15.4, 51.7)	161,163,168,170
Georgia	27.5 (24.9, 30.2)	177	14.8 (11.2, 18.5)	173,174	9.5 (7.4, 11.6)	173,174	75.3 (67.4, 83.3)	172-174,176,177	24.3 (15.0, 33.6)	173,174,176,177
Hungary	7.7 (5.2, 10.8)	185	29.6 (19.5, 39.7)	181,182,184-186	72.6 (69.4, 75.8)	181,185	39.3 (23.1, 55.4)	178-181,183,185,187	34.0 (25.9, 42.1)	178-181,183,185,187
Latvia	--	--	29.5 (26.1, 32.9)	188,189	37.9 (35.3, 40.6)	188,189	53.9 (50.1, 57.6)	188,189	42.4 (38.7, 46.1)	188,189
Lithuania	3.0 (1.6, 5.2)	189	6.1 (4.7, 7.4)	189,190	81.6 (79.1, 84.1)	189,190	80.1 (71.6, 88.6)	189-191	5.3 (0.8, 9.7)	189-191
Moldova	--	--	11.5 (4.3, 18.7)	192,193	--	--	76.5 (60.2, 92.9)	193	29.4 (26.2, 32.6)	193
Poland	7.1 (5.0, 9.8)	194	13.7 (1.4, 26.1)	194,197,198	50.3 (43.0, 57.5)	197	76.3 (73.1, 79.3)	198	20.1 (17.3, 23.1)	198
Romania	--	--	30.5 (5.3, 55.7)	192,200,205	36.7 (32.2, 41.3)	205	79.0 (64.2, 93.9)	200-203,205	1.2 (0.7, 1.7)	200,201
Russian Federation	12.1 (4.7, 19.6)	48,206,208,215,217,200	27.6 (18.9, 36.3)	206,210,212,214-216,218	34.2 (31.0, 37.4)	206,218	69.3 (47.6, 90.9)	206,211,212,214,217	47.4 (44.5, 50.4)	206,212
Slovakia	--	--	--	--	--	--	--	--	--	--
Ukraine	4.4 (3.2, 5.7)	48,220-222,225	7.8 (6.1, 9.4)	220,225,227,228	53.6 (46.7, 60.5)	221-223,225,227,228	78.6 (75.7, 81.5)	221,222,228	18.9 (16.3, 21.5)	221,222,228
Western Europe										
Albania	--	--	25.6 (21.1, 30.2)	192,495	--	--	86.7 (83.4, 90.0)	192,495	8.5 (5.0, 13.3)	--
Andorra	--	--	--	--	--	--	--	--	--	--
Austria	--	--	29.0 (18.2, 41.9)	496	--	--	82.7 (75.8, 88.3)	498	5.8 (2.7, 10.7)	498
Belgium	--	--	17.9 (14.6, 21.1)	500,503	--	--	57.6 (40.1, 75.1)	157,500,501,503	55.6 (42.6, 68.5)	500,501
Croatia	3.4 (0.2, 6.6)	508	26.6 (17.9, 35.2)	510-512	20.8 (17.4, 24.1)	508,510	100 (99.9, 100)	511,512	0.0 (0.0, 0.1)	512
Denmark	--	--	--	--	--	--	82.9 (67.9, 92.8)	514	70.7 (54.5, 83.9)	--
England	--	--	--	--	--	--	93.0 (92.6, 93.4)	521	3.0 (2.7, 3.3)	521
Finland	--	--	--	--	--	--	--	--	--	--
Former Yugoslav Rep. of Macedonia	--	--	--	--	--	--	--	--	--	--
France	--	--	9.3 (7.6, 11.0)	523-525	--	--	81.0 (79.2, 82.7)	525	8.0 (6.2, 9.3)	525
Germany	3.5 (2.3, 4.7)	531	14.2 (10.9, 17.5)	529,531,532	41.4 (36.6, 46.2)	531	55.2 (51.6, 58.8)	529,530	44.3 (40.9, 47.8)	529
Greece	7.1 (6.3, 8.0)	537	35.3 (26.5, 44.0)	533-535,537,539,542	54.0 (50.9, 57.1)	539	86.8 (78.7, 94.9)	533,535,537-539	2.6 (2.2, 3.0)	533,537
Greenland	--	--	--	--	--	--	--	--	--	--
Iceland	2.8 (0.6, 7.9)	543	28.7 (20.4, 38.2)	543	65.7 (56.0, 74.6)	543	--	--	--	--
Ireland	--	--	26.9 (22.3, 32.0)	545	--	--	--	--	--	--
Italy	--	--	--	--	--	--	70.1 (64.8, 75.5)	549,551	15.2 (13.5, 17.0)	549,551
Luxembourg	--	--	--	--	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--	--	--	--
Monaco	--	--	--	--	--	--	--	--	--	--
Montenegro	--	--	21.6 (17.3, 26.5)	553	--	--	87.8 (83.8, 91.1)	553	--	--
Netherlands	--	--	--	--	--	--	--	--	--	--
Northern Ireland	--	--	--	--	--	--	--	--	--	--

	% recent sex work		% recent injecting risk ¹		% recent sexual risk ²		% main drug injected opioids ³		% main drug injected stimulants ³	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Norway	15.4 (10.6, 21.2)	561	15.3 (11.6, 19.7)	556	--	--	86.8 (83.6, 89.5)	556,559	17.4 (13.5, 22.0)	556
Portugal	--	--	--	--	--	--	--	--	--	--
San Marino	--	--	--	--	--	--	--	--	--	--
Scotland	--	--	2.2 (1.1, 3.3)	338	--	--	76.8 (75.1, 78.5)	332,339	13.7 (10.6, 17.3)	339
Serbia	3.2 (1.6, 4.7)	566	15.3 (7.2, 23.4)	192,553,564-566	33.5 (29.3, 37.6)	566	81.9 (78.9, 84.8)	553,565	59.9 (56.2, 63.7)	566
Slovenia	--	--	--	--	--	--	60.8 (53.7, 67.5)	568	66.2 (59.2, 72.6)	-
Spain	18.0 (3.9, 32.2)	570,576,584	41.4 (30.1, 52.6)	576,579	8.0 (6.6, 9.6)	576	74.9 (73.7, 76.0)	573,581	12.7 (11.8, 13.5)	573,581
Sweden	10.3 (4.5, 19.2)	588	43.1 (39.4, 46.8)	586	--	--	60.8 (28.1, 93.5)	585,587,589,591	37.2 (4.9, 69.5)	585,587,589
Switzerland	--	--	--	--	--	--	71.5 (69.0, 73.9)	592	--	--
Wales	--	--	--	--	--	--	--	--	--	--
East and South East Asia										
Brunei Darussalam	--	--	--	--	--	--	--	--	--	--
Cambodia	--	--	33.9 (28.4, 39.3)	46,47	--	--	--	--	--	--
China	20.3 (2.5, 38.1)	54,56,74,80	20.9 (10.4, 31.4)	50,54,56-58,60,63,64,67,68,72-74,77,79-90	35.1 (27.1, 43.1)	50,52,54,56-58,60,64,66-68,72-74,77,81	99.9 (99.3, 100.0)	64	--	--
Hong Kong (China)	--	--	--	--	--	--	--	--	--	--
Indonesia	5.7 (5.1, 6.3)	97,101	10.7 (7.8, 13.6)	96-99,101,102	54.0 (38.6, 69.3)	97,99,103	97.0 (96.5, 97.5)	97	1.0 (0.7, 1.3)	97
Japan	--	--	--	--	--	--	--	--	--	--
Lao PDR	--	--	--	--	--	--	--	--	--	--
Malaysia	--	--	47.0 (8.1, 86.0)	104-106	29.5 (25.4, 33.9)	105	68.6 (64.5, 72.6)	107	9.0 (0, 19.7)	48#18,106
Mongolia	--	--	--	--	--	--	--	--	--	--
Myanmar	--	--	18.9 (14.4, 23.3)	108,110	16.0 (10.4, 21.7)	110	95.0 (94.2, 95.8)	110	--	--
Philippines	23.3 (11.8, 34.9)	116,117	65.6 (49.3, 82.0)	116-118	--	--	98.7 (98.0, 99.3)	116,118	0.7 (0.0, 1.4)	116
Republic of Korea	--	--	--	--	--	--	--	--	--	--
Singapore	--	--	--	--	--	--	--	--	--	--
Taiwan	--	--	6.9 (0.1, 22.6)	123,125,126	38.9 (34.9, 43.0)	123	80.9 (78.9, 82.9)	123,125	--	--
Thailand	6.6 (1.2, 12.0)	130,134	26.1 (9.4, 42.7)	129,130,134,136	20.7 (2.7, 38.8)	134,136	75.8 (60.6, 91.0)	128,130,131,133,134,136	50.8 (37.5, 64.0)	128,130,131,133,134,136
Timor Leste	--	--	--	--	--	--	--	--	--	--
Viet Nam	29.2 (13.1, 45.2)	48,137,145	23.5 (18.0, 29.0)	137,138,141,142,144-147	61.9 (36.8, 86.9)	137,139,144	99.9 (99.7, 100)	48,137	0.1 (0.0, 0.3)	48,137
South Asia										
Afghanistan	--	--	29.4 (19.9, 38.9)	347,349	72.9 (68.1, 77.4)	344	--	--	--	--
Bangladesh	0.5 (0.0, 1.3)	352	62.1 (47.5, 76.8)	352	59.3 (57.1, 61.4)	351,353	93.9 (88.2, 99.6)	352	--	--
Bhutan	--	--	--	--	--	--	--	--	--	--
India	10.8 (2.5, 19.0)	354,381	34.5 (28.9, 40.2)	359,361,362,365-367,369,372,376,377,381,383-390	25.6 (21.2, 30.0)	359,362,370,372,375-377,381,383,384,388,390	90.5 (86.8, 94.1)	369,370,376,377,380	0.9 (0.7, 1.1)	359,375
Iran	30.4 (28.5, 32.3)	416	34.4 (17.5, 51.3)	393,407,409,414,417	34.9 (13.8, 56.0)	404,407,409	86.9 (78.8, 95.1)	393,406,417,419,421	4.9 (3.6, 6.2)	393,418
Maldives	--	--	14.0 (8.5, 21.2)	422	--	--	100 (99.3, 100)	422	--	--
Nepal	--	--	24.9 (11.8, 38.0)	425,426,429,430,439	23.5 (15.9, 31.1)	430-433,435-437	87.3 (81.2, 91.9)	427	6.1 (2.9, 10.9)	427
Pakistan	15.2 (11.7, 18.7)	441-443,445,448	25.5 (20.5, 30.5)	441-444,449	28.1 (24.7, 31.4)	447	92.0 (87.4, 95.4)	450	--	--
Sri Lanka	--	--	--	--	50.3 (44.7, 55.9)	451	99.7 (98.3, 100.0)	451	0.3 (0.0, 1.7)	451
Central Asia										
Kazakhstan	--	--	54.1 (49.6, 58.5)	41	--	--	--	--	--	--
Kyrgyzstan	--	--	12.1 (10.4, 13.8)	41,43	13.7 (11.5, 16.1)	43	86.0 (83.5, 88.2)	43	--	--
Tajikistan	--	--	53.6 (48.8, 58.4)	41	--	--	--	--	--	--

	% recent sex work		% recent injecting risk ¹		% recent sexual risk ²		% main drug injected opioids ³		% main drug injected stimulants ³	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Turkmenistan	--	--	--	--	--	--	--	--	--	--
Uzbekistan	--	--	--	--	--	--	--	--	--	--
Caribbean										
Bahamas	--	--	--	--	--	--	--	--	--	--
Bermuda	--	--	--	--	--	--	--	--	--	--
Comm. of Puerto Rico	3.3 (1.2, 7.1)	40	16.3 (13.1, 19.6)	39,40	24.4 (18.4, 31.4)	40	98.3 (95.2, 99.7)	40	92.8 (88.0, 96.1)	40
Dominican Republic	--	--	--	--	--	--	--	--	--	--
Haiti	--	--	--	--	--	--	--	--	--	--
Jamaica	--	--	--	--	--	--	--	--	--	--
Latin America										
Argentina	--	--	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--	--	--
Chile	--	--	--	--	--	--	--	--	--	--
Colombia	--	--	42.7 (35.2, 50.2)	230,232	11.4 (8.7, 14.0)	230	--	--	--	--
Costa Rica	--	--	--	--	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	--	--	--
El Salvador	--	--	--	--	--	--	--	--	--	--
Guatemala	--	--	--	--	--	--	--	--	--	--
Guyana	--	--	--	--	--	--	--	--	--	--
Honduras	--	--	--	--	--	--	--	--	--	--
Mexico	13.2 (11.2, 15.4)	236	66.5 (55.7, 77.2)	233,234,236	54.3 (35.2, 73.5)	234,236,237	91.3 (84.7, 97.9)	233,234,236	49.4 (39.3, 59.4)	233,234,236
Nicaragua	26.8 (14.2, 42.9)	238	46.3 (30.7, 62.6)	238	80.5 (65.1, 91.2)	238	--	--	--	--
Panama	--	--	--	--	--	--	--	--	--	--
Paraguay	--	--	--	--	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	--	--	--
Suriname	--	--	--	--	--	--	--	--	--	--
Uruguay	--	--	--	--	--	--	--	--	--	--
Venezuela	--	--	--	--	--	--	--	--	--	--
North America										
Canada	10.0 (5.5, 14.5)	271,275,280,282,286	17.1 (14.7, 19.4)	263,266,273-275,282,286	64.6 (60.2, 69.0)	263,274,275	44.8 (39.6, 50.0)	18,263,264,274,275,282,286	46.3 (41.4, 51.2)	18,263,264,273-275,282,286
United States	22.8 (11.8, 33.9)	294,300,322,328,331	29.5 (22.0, 36.9)	290,294,298,300,301,304,305,313,314,318,322,325,328,330,331	34.2 (18.3, 50.0)	294,298,300,307,331	76.5 (67.9, 85.1)	233,287,296,301,304,320	37.7 (15.2, 60.2)	233,296,301,304
Pacific Island States & Territories										
American Samoa	--	--	--	--	--	--	--	--	--	--
Fed. States of Micronesia	--	--	--	--	--	--	--	--	--	--
Fiji	--	--	--	--	--	--	--	--	--	--
French Polynesia	--	--	--	--	--	--	--	--	--	--
Guam	--	--	--	--	--	--	--	--	--	--
Kiribati	--	--	--	--	--	--	--	--	--	--
Marshall Islands	--	--	--	--	--	--	--	--	--	--
New Caledonia	--	--	--	--	--	--	--	--	--	--
Northern Mariana Islands	--	--	--	--	--	--	--	--	--	--

	% recent sex work		% recent injecting risk ¹		% recent sexual risk ²		% main drug injected opioids ³		% main drug injected stimulants ³	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Palau	--	--	--	--	--	--	--	--	--	--
Papua New Guinea	--	--	--	--	--	--	--	--	--	--
Samoa	--	--	--	--	--	--	--	--	--	--
Solomon Islands	--	--	--	--	--	--	--	--	--	--
Tonga	--	--	--	--	--	--	--	--	--	--
Vanuatu	--	--	--	--	--	--	--	--	--	--
Australasia										
Australia	--	--	11.9 (8.8, 14.9)	3,4,7,10,18,22,25,28,29	7.9 (4.8, 11.1)	14,18,22	64.5 (58.6, 70.4)	7,17,21,26-28	32.9 (24.5, 41.3)	7,21,26-28
New Zealand	19.4 (12.3, 28.4)	35	32.9 (29.4, 36.4)	33	22.3 (14.7, 31.6)	35	61.6 (56.9, 66.3)	31	31.3 (26.9, 35.7)	31
Sub Saharan Africa										
Angola	--	--	--	--	--	--	--	--	--	--
Benin	--	--	25.0 (17.5, 33.7)	452	11.1 (8.2, 14.7)	453	--	--	--	--
Botswana	--	--	--	--	--	--	--	--	--	--
Burkina Faso	--	--	--	--	--	--	--	--	--	--
Burundi	--	--	--	--	--	--	--	--	--	--
Cameroon	--	--	--	--	--	--	--	--	--	--
Cape Verde	--	--	--	--	--	--	--	--	--	--
Central African Rep.	--	--	--	--	--	--	--	--	--	--
Chad	--	--	20.0 (10.0, 33.7)	454	--	--	--	--	--	--
Comoros	--	--	--	--	--	--	--	--	--	--
Dem. Republic of Congo	--	--	--	--	--	--	--	--	--	--
Cote d'Ivoire	22.8 (12.7, 35.8)	455	1.8 (0.0, 9.4)	455	36.8 (24.4, 50.7)	455	--	--	--	--
Djibouti	--	--	--	--	--	--	--	--	--	--
Equatorial Guinea	--	--	--	--	--	--	--	--	--	--
Eritrea	--	--	--	--	--	--	--	--	--	--
Ethiopia	--	--	--	--	--	--	--	--	--	--
Gabon	--	--	--	--	--	--	--	--	--	--
Gambia	--	--	--	--	--	--	--	--	--	--
Ghana	--	--	--	--	--	--	--	--	--	--
Guinea	--	--	--	--	--	--	--	--	--	--
Guinea-Bissau	--	--	--	--	--	--	--	--	--	--
Kenya	36.1 (7.2, 64.9)	48,457,461,466	31.1 (18.5, 43.6)	457,459,462-464,466	46.1 (25.2, 67.0)	48,457,459,462-464,466	94.3 (91.8, 96.8)	459,464	3.7 (1.8, 6.7)	--
Lesotho	--	--	--	--	--	--	--	--	--	--
Liberia	8.7 (5.7, 12.4)	467	--	--	63.0 (57.3, 68.5)	467	--	--	--	--
Madagascar	--	--	19.3 (8.1, 30.4)	468	66.2 (59.4, 73.0)	468	43.4 (6.6, 80.2)	468	28.6 (6.8, 50.4)	468
Malawi	--	--	--	--	--	--	--	--	--	--
Mali	--	--	--	--	--	--	--	--	--	--
Mauritania	--	--	--	--	--	--	--	--	--	--
Mauritius	--	--	30.6 (24.2, 37.1)	470-472	10.1 (8.7, 11.4)	470,471	99.4 (98.9, 99.9)	471	--	--
Mozambique	--	--	--	--	55.3 (51.0, 59.6)	473	--	--	--	--
Namibia	--	--	--	--	--	--	--	--	--	--
Niger	--	--	--	--	--	--	--	--	--	--
Nigeria	2.1 (1.4, 2.8)	48,475	13.8 (6.2, 21.3)	474-476	26.6 (19.0, 34.2)	48,475,477	77.5 (63.8, 91.2)	48,474,476	69.9 (59.3, 80.5)	48
Rwanda	--	--	--	--	--	--	--	--	--	--
Sao Tome & Principe	--	--	--	--	--	--	--	--	--	--
Senegal	--	--	12.9 (7.8, 19.6)	479	--	--	46.4 (38.0, 55.0)	479	--	--

	% recent sex work		% recent injecting risk ¹		% recent sexual risk ²		% main drug injected opioids ³		% main drug injected stimulants ³	
	% (range)	References	% (range)	References	% (range)	References	% (range)	References	% (range)	References
Seychelles	--	--	59.0 (53.6, 64.2)	480	9.0 (6.2, 12.5)	480	97.7 (95.5, 99.0)	480	5.2 (3.1, 8.1)	480
Sierra Leone	91.9 (87.8, 94.9)	482	--	--	--	--	--	--	--	--
Somalia	--	--	--	--	--	--	--	--	--	--
South Africa	31.4 (23.1, 40.5)	484	46.2 (35.9, 56.5)	483	28.0 (20.1, 37.0)	484	89.9 (83.5, 96.2)	483	6.1 (2.1, 10.0)	483
Swaziland	--	--	--	--	--	--	--	--	--	--
Togo	--	--	24.2 (19.2, 29.7)	485	--	--	--	--	--	--
Uganda	--	--	--	--	--	--	--	--	--	--
United Rep. of Tanzania	17.8 (4.7, 30.9)	486,489,491,493	29.4 (21.2, 37.5)	486,489-494	69.3 (55.1, 83.6)	486,489-493	--	--	--	--
Zambia	--	--	--	--	--	--	--	--	--	--
Zimbabwe	--	--	--	--	--	--	--	--	--	--
Middle East and North Africa										
Algeria	--	--	--	--	--	--	--	--	--	--
Bahrain	--	--	--	--	--	--	--	--	--	--
Cyprus	--	--	--	--	--	--	--	--	--	--
Egypt	--	--	--	--	--	--	--	--	--	--
Iraq	--	--	--	--	--	--	--	--	--	--
Israel	13.1 (8.7, 18.6)	243	59.8 (52.6, 66.7)	243	48.7 (41.6, 55.9)	243	--	--	--	--
Jordan	--	--	--	--	--	--	--	--	--	--
Kuwait	--	--	--	--	--	--	--	--	--	--
Lebanon	--	--	--	--	35.8 (25.4, 47.2)	245	--	--	--	--
Libyan Arab Jamahiriya	--	--	18.3 (14.3, 22.9)	246	34.5 (29.3, 39.9)	246	98.5 (96.5, 99.5)	246	--	--
Morocco	--	--	29.1 (18.3, 39.9)	248,249	34.0 (27.4, 40.6)	248,249	90.9 (88.4, 93.3)	248,249	15.6 (2.7, 28.5)	--
Occ. Palestinian Terr.	8.0 (4.7, 12.7)	251	31.7 (25.3, 38.6)	251	76.9 (70.4, 82.6)	251	86.9 (81.4, 91.3)	251	13.1 (8.7, 18.6)	251
Oman	--	--	--	--	--	--	--	--	--	--
Qatar	--	--	--	--	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	--	--	--
South Sudan	--	--	--	--	--	--	--	--	--	--
Sudan	--	--	--	--	--	--	--	--	--	--
Syrian Arab Rep.	--	--	1.0 (0.3, 2.6)	254	33.0 (28.4, 37.9)	254	94.4 (91.7, 96.5)	254	11.4 (8.5, 15.0)	--
Tunisia	--	--	30.5 (28.2, 32.7)	255,256	55.5 (52.0, 59.0)	256	99.5 (98.7, 99.9)	256	14.3 (12.0, 17.0)	--
Turkey	--	--	--	--	--	--	99.9 (99.8, 99.9)	257,259	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	--
Yemen	--	--	--	--	--	--	--	--	--	--

Notes:

- Indicates that although there is evidence that injecting drug use is occurring in this country, no eligible studies involving PWID were located that examined this characteristic.
- 1. Recent injecting risk defined as receptive needle-syringe sharing (i.e. using a needle-syringe after someone else). Some exceptions to this terminology occurred for some estimates In countries – see **Appendix 14**. All estimates were for behaviours within the past year.
- 2. Recent sexual risk defined as unprotected sex with a non-regular (casual) sexual partner. Some exceptions to this terminology occurred for some estimates In countries – see **Appendix 14**. All estimates were for behaviours within the past year.
- 3. Note that for the “main drug” column estimates are not exactly additive; estimates from different samples of PWID may have been used for each indicator (opioids or stimulants), and additionally, in some countries (e.g. Mexico), there was a large proportion of PWID who reported injecting a combination of opioids and stimulants together as their main drug (“speedballs”), in which case these were counted as BOTH opioids and stimulants being the main drugs injected.

The following countries are not listed in this table, as we did not find documented evidence or reports of injecting drug use in these countries: Antigua and Barbuda, Barbados, Belize, Botswana, Central African Republic, Comoros, Cuba, Democratic People’s Republic of Korea, Dominica, Equatorial Guinea, Eritrea, Greenland, Grenada, Guinea-Bissau, Lesotho, Liechtenstein, Mauritania, Namibia, Nauru, Republic of Congo, Saint Kitts and Nevis, Saint Lucia, Sao Tome and Principe, Saint Vincent and Grenadines, South Sudan, Trinidad and Tobago, and Tuvalu.

Please see **Appendix 8** for decision rules and data extraction procedures for these characteristics.

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