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Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	2,400	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$1,704,780	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	4,800	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$3,409,560	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	4,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$28,000	
Mean bound (40%) coverage of estimated number of IDUs	8,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$56,000	
Upper bound (60%) coverage of estimated number of IDUs	12,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$80,000	

**Note: R = registered data; E = estimated data; N/A = not available.**

**Table C7. Vietnam: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2006–2009**

Injecting Drug Population		
Estimated total country population	86,116,560	U.S. Central Intelligence Agency's <i>World Fact Book</i> , <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	R: 145,000 (06) E: 200,000 (09)	Vietnam Ministry of Public Security, 2007 "HIV/AIDS Estimates and Projections 2007–2012," Vietnam Administration of HIV/AIDS Control, Ministry of Health, 2009.
Gender distribution (M/F)%	82/18	Country expert report from Gary West,
Adults living with HIV/AIDS	E: 243,000 (09)	"HIV/AIDS Estimates and Projections 2007–2012," Vietnam Administration of HIV/AIDS Control, Ministry of Health, 2009.
Proportion of cumulative HIV cases caused by IDU	51.68% (06)	Ministry of Health Sentinel Surveillance, 2006.
Adults living with HIV who are IDUs	59,890 (06)	David Fiellin et al., <i>Combating the Twin Epidemics of HIV/AIDS and Drug Addiction: Opportunities for Progress and Gaps in Scale</i> (Washington, D.C.: CSIS, 2008).
Adult HIV prevalence among IDUs	E: 20.27% (07) E: 34% (07)	Vietnam Ministry of Health Sentinel Surveillance, 2008.  IDU estimates from the "Reference Group to the United Nations on HIV and Injecting Drug Use," 2008.
Number receiving ART	28,000	PEPFAR progress reports and Vietnam Ministry of Health results (as of February 2009).
Number of IDUs on ART	N/A	
People on MMT	1,354 (09)	Country expert report from Gary West, from study of 6 pilot MMT sites.
Number of MMT sites	6	Country expert report from Gary West, from study of 6 pilot MMT sites.
Methadone dosing/range	104.3 (20–300mg)	
Methadone/buprenorphine start year	2008	Country expert report from Gary West.

Number of NSP sites	194	Jason Eligh, HIV/AIDS Advisor, United Nations Office on Drugs and Crime, Hanoi, Vietnam, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Vietnam," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
Number of syringe distributions/year	20,000,000 (08)	Jason Eligh, HIV/AIDS Advisor, United Nations Office on Drugs and Crime, Hanoi, Vietnam, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Vietnam," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
Individuals accessing NSP/year	40,763 (08)	Jason Eligh, HIV/AIDS Advisor, United Nations Office on Drugs and Crime, Hanoi, Vietnam, response to the "UN HIV and IDU Reference Group: Request to fill Data Gaps—Vietnam," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	120,000	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	22,646	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$16,086,020	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	46,646	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$33,133,820	

Needle and Syringe Exchange Program Cost Estimate		
Lower bound (20%) coverage of estimated number of IDUs	40,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$280,000	
Mean bound (40%) coverage of estimated number of IDUs	80,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$560,000	
Upper bound (60%) coverage of estimated number of IDUs	120,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$840,000	

Note: R = registered data; E = estimated data; N/A = not available.

**Table C8. China: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2005–2009**

Injecting Drug Population		
Estimated total country population	1,330,044,544	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	R: 541,184 (08)  E: 2,350,000 (1,800,000–2,900,000) (05)	<i>Annual Report on Drug Control in China</i> , China National Narcotics Control Committee, 2008.  Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject Drugs: A Systematic Review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).
Gender distribution (M/F)%	80/20	Country expert report from Junli Zhi.
Adults living with HIV/AIDS	R: 230,643 (07)  E: 690,000 (450,000–1,000,000) (07)	Country expert report from Jian Luo.  "A Joint Assessment of HIV/AIDS Prevention, Treatment, and Care in China," UN Theme Group on HIV/AIDS in China and State Council AIDS Working Committee Office, Ministry of Health, 2007.
Proportion of cumulative HIV cases caused by IDU	38.5% (07)	"A Joint Assessment of HIV/AIDS Prevention, Treatment, and Care in China," UN Theme Group on HIV/AIDS in China and State Council AIDS Working Committee Office, Ministry of Health, 2007.
Adults living with HIV who are IDUs	88,798 (08)	Country expert report from Jian Luo based on 38.5% of registered adults living with HIV.
Adult HIV prevalence among IDUs	8.1% (07)	"A Joint Assessment of HIV/AIDS Prevention, Treatment, and Care in China," UN Theme Group on HIV/AIDS in China and State Council AIDS Working Committee Office, Ministry of Health, 2007.
Number receiving ART	52,000 (08)	Fujie Zhang et. al., "Five-Year Outcomes of the China National Free Antiretroviral Treatment Program," <i>Annals of Internal Medicine</i> 151, no. 4 (W-252, 2009): 241–51.
Number of IDUs on ART	7,644 (08)	
People on MMT	93,733 (08)	"Scaling-up the Methadone Maintenance Treatment Program in China," National Working Group on Community-Based MMT for Opium Dependents," 2009.
Number of MMT sites	621(09)	"Scaling-up the Methadone Maintenance Treatment Program in China," National Working Group on Community-Based MMT for Opium Dependents," 2009.

Methadone dosing/range	50 (1–315mg)	Country expert report from Junli Zhi.
Methadone/buprenorphine start year	2004/2008	
Number of NSP sites	901	Wu Zunyou, "Update of Harm Reduction in China," cited by country expert Jian Luo.
Number of syringe distributions/year	1,173,764	"Scaling-up the Methadone Maintenance Treatment Program in China," National Working Group on Community-Based MMT for Opium Dependents," 2009.
Individuals accessing NSP/year	>38,000	Wu Zunyou, "Update of Harm Reduction in China," cited by country expert Jian Luo.
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	1,410,000	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	188,267	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$133,730,757	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	470,267	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$334,042,407	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	470,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$3,290,000	
Mean bound (40%) coverage of estimated number of IDUs	940,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$6,580,000	
Upper bound (60%) coverage of estimated number of IDUs	1,410,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$9,870,000	

Note: R = registered data; E = estimated data; N/A = not available.



**Table C9. Indonesia: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2003–2009**

Injecting Drug Population		
Estimated total country population	237,512,352	U.S. Central Intelligence Agency's <i>World Fact Book</i> , <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	R: 237,057 (09)  E: 190,460–247,800 (08)	Statement by H. E Dr. Sitifadilah Supari, Indonesian minister for health, at the high-level segment of the 52nd session of the Commission on Narcotic Drugs, Vienna, March 11, 2009.  Mukta Sharma et al., "A Situation Update on HIV Epidemics among People Who Inject Drugs and National Responses in South-East Asia," <i>AIDS</i> 23, no. 11 (July 17, 2009).
Gender distribution (M/F)%	89/11 (06)	National Narcotic Board of Indonesia, Research and Development, National Survey, May 2006.
Adults living with HIV/AIDS	E: 270,000 (190,000–400,000) (07)	<i>Report on the Global AIDS Epidemic 2008</i> , UNAIDS (Geneva: UNAIDS, 2008).
Proportion of cumulative HIV cases caused by IDU	42.22%	January–June 2009 Report, Ministry of Health and National AIDS Commission of Indonesia.
Adults living with HIV who are IDUs	E: 94,500 (61,500–134,000) (06)	Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject Drugs: A Systematic review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).
Adult HIV prevalence among IDUs	42.5 ( 31.7–53.3) (06)  E: 52.4 (07)	Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject Drugs: A Systematic review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).  <i>Report on the Global AIDS Epidemic 2008</i> , UNAIDS (Geneva: UNAIDS, 2008).
Number receiving ART	19,579 (09)	Country expert report from Risa Alexander.
Number of IDUs on ART	N/A	
People on MMT	2,854 (09)	Ministry of Health of Indonesia, June 2009.
Number of MMT sites	36	
Methadone dosing/range	60 (40–80mg)	Country expert report from Risa Alexander.
Methadone/buprenorphine start year	2003/2003	
Number of NSP sites	159	Mukta Sharma et al., "A Situation Update on HIV Epidemics among People Who Inject Drugs and National Responses in South-East Asia," <i>AIDS</i> 23, no. 11 (July 17, 2009).

Number of syringe distributions/year	511,670	Kemal Siregar, Response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Indonesia," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
Individuals accessing NSP/year	49,000	"Monitoring IDUs' Service Coverage and Quality Monitoring," a presentation made at the WHO/UNAIDS Workshop on Monitoring and Evaluation of National HIV/AIDS Interventions for Most-at-Risk Populations, Indonesia CDC, Ministry of Health, and National AIDS Commission, Mysore, India, July 15–18, 2008.
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	142,234	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	25,593	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$18,179,234	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	54,040	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$38,385,736	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	47,411	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$331,880	
Mean bound (40%) coverage of estimated number of IDUs	94,822	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$663,754	
Upper bound (60%) coverage of estimated number of IDUs	142,234	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$995,639	

Note: R = registered data; E = estimated data; N/A = not available.

**Table C10. Cambodia: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2006 and 2007**

Injecting Drug Population		
Estimated total country population	14,241,640	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	E: 2,025 (1,250–7,500 ) (07)	"HIV Prevalence among Drug Users 2007 and Population Size Estimates," National Center for HIV/AIDS, Dermatology and STD (NCHADS), Cambodia, 2009.
Gender distribution (M/F)%	90/10	"Drug User Population Size Estimate 2007," NCHADS, National Authority for Combating Drugs, WHO, Phnom Penh, 2009.
Adults living with HIV/AIDS	E: 75,000 (07)	"UNGASS Cambodia Country Progress Report for Reporting Period January 2006–December 2007," Kingdom of Cambodia National AIDS Authority, January 31, 2008.
Proportion of cumulative HIV cases caused by IDU	Not available	Country expert report from Graham Shaw.
Adults living with HIV who are IDUs	E: 500 (<500–2,500) (06)	Based on figures and calculation in Mathers et al. (2008) (data were drawn in 2006).
Adult HIV prevalence among IDUs	24.4 % (07)	"HIV Prevalence among Drug Users 2007," presentation by the Surveillance Unit, National Center for HIV/AIDS, Dermatology and STD, November 2008.
Number receiving ART	26,664 (07)	WHO, UNAIDS, and UNICEF, <i>Towards Universal Access: Scaling Up Priority HIV/AIDS Interventions in the Health Sector, Progress Report</i> (Geneva: WHO/UNAIDS/UNICEF, September 2009).
Number of IDUs on ART	N/A	
People on MMT	0	Graham Shaw, WHO Cambodia, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Cambodia," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
Number of MMT sites	0	
Methadone dosing/range	N/A	
Methadone/buprenorphine start year	N/A	
Number of NSP sites	2	Graham Shaw, WHO Cambodia, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Cambodia," Reference Group to the UN on HIV and Injecting Drug Use, 2009.

Number of syringe distributions/year	117,631	"Cambodian National Needle/Syringe Programme (NSP) Data Report 2008," Drug Information Centre, Secretariat-General, National Authority for Combating Drugs, Phnom Penh, 2009.
Individuals accessing NSP/year	34,412 (no. of contacts)	"Cambodian National Needle/Syringe Programme (NSP) Data Report 2008," Drug Information Centre, Secretariat-General, National Authority for Combating Drugs, Phnom Penh, 2009.
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	1,215	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	243	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$172,609	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	486	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$345,218	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	405	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$2,835	
Mean bound (40%) coverage of estimated number of IDUs	810	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$5,670	
Upper bound (60%) coverage of estimated number of IDUs	1,215	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$8,100	

Note: R = registered data; E = estimated data; N/A = not available.

**Table C11. Malaysia: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2006 and 2007**

Injecting Drug Population		
Estimated total country population	25,274,132	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	E: 195,000 (07)	The Global State of Harm Reduction 2008: Mapping the Response to Drug-related HIV and Hepatitis C Epidemics, International Harm Reduction Association, London, 2008.
Gender distribution (M/F)%	96.6/3.4	National Drug Information System of Malaysia, 2008.
Adults living with HIV/AIDS	E: 86,617 (07)  E: 79,000 (51,000–120,000) (07)	AIDS/STI Unit Ministry of Health/UNAIDS WHO report 2008.  Report on the Global AIDS Epidemic 2008, UNAIDS (Geneva: UNAIDS, 2008).
Proportion of cumulative HIV cases caused by IDU	71.2% (07)	Report on the Global AIDS Epidemic 2008, UNAIDS (Geneva: UNAIDS, 2008).
Adults living with HIV who are IDUs	60,248 (07)	Report on the Global AIDS Epidemic 2008, UNAIDS (Geneva: UNAIDS, 2008).
Adult HIV prevalence among IDUs	19.2% (06)  11% (07)	Marek C. Chawarski et al., "Heroin Dependence and HIV Infection in Malaysia," <i>Drug Alcohol Dependence</i> 82, supp. 1(2006): S39–S42.  UNGASS Country Progress Report (January 2006–December 2007), January 2008.
Number receiving ART	7,587 (07)	Ministry of Health of Malaysia (2008).
Number of IDUs on ART	1,770 (07)	Ministry of Health of Malaysia (2008).
People on MMT	20,000 (5,000 in public, 15,000 in private) (08)	Country expert report from Balasingam Vicknasingam.
Number of MMT sites	75	Monthly update meeting on harm reduction with the director of disease control, Ministry of Health of Malaysia, March 19, 2009.
Methadone dosing/range	80 (40–120mg)	Country expert report from Sharifah Faridah Syed Omar.
Methadone/buprenorphine start year	2005/2001	Country expert report from Balasingam Vicknasingam.
Number of NSP sites	130	Dr. Harpal Singh, WHO Malaysia, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Malaysia," Reference Group to the UN on HIV and Injecting Drug Use, 2009; monthly update meeting on harm reduction with the director of disease control, Ministry of Health of Malaysia, March 19, 2009.

Number of syringe distributions/ year	1,903,174	Dr. Harpal Singh, WHO Malaysia, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps— Malaysia," Reference Group to the UN on HIV and Injecting Drug Use, 2009; monthly update meeting on harm reduction with the director of disease control, Ministry of Health of Malaysia, March 19, 2009.
Individuals accessing NSP/year	5,572	Dr. Harpal Singh, WHO Malaysia, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Malaysia," Reference Group to the UN on HIV and Injecting Drug Use, 2009; monthly update meeting on harm reduction with the director of disease control, Ministry of Health of Malaysia, March 19, 2009.
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	117,000	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	3,400	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$2,415,105	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	26,800	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$19,036,710	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	39,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$273,000	
Mean bound (40%) coverage of estimated number of IDUs	78,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$546,000	
Upper bound (60%) coverage of estimated number of IDUs	117,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$819,000	

Note: R = registered data; E = estimated data; N/A = not available.

**Table C12. South Africa: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2005–2008**

Injecting Drug Population		
Estimated total country population	48,300,000	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	E: 16,000 (08)	Based on extrapolations from national drug treatment data (and indirect estimators). See <a href="http://www.sahealthinfo.org/admodule/sacendu.htm">http://www.sahealthinfo.org/admodule/sacendu.htm</a> .  Andreas Plüddemman et al., "Monitoring Alcohol and Drug Abuse Treatment Admissions in South Africa," South African Community Epidemiology Network on Drug Use, Cape Town, 2009.
Gender distribution (M/F)%	73/27	Country expert report from Charles Parry.
Adults living with HIV/AIDS	E: 5,250,000 (5,200,000–5,300,000) (08)	From extrapolations from the South African 2007 Department of Health Antenatal Survey (published in 2008), and 2008 Human Sciences Research Council's national HIV prevalence survey (published in 2009).  Report on the Global AIDS Epidemic 2008, UNAIDS (Geneva: UNAIDS, 2008).
Proportion of cumulative HIV cases caused by IDU	N/A	
Adults living with HIV who are IDUs	E: 33,500 (4,000–91,500) (05)	Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject drugs: A Systematic review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).
Adult HIV prevalence among IDUs	20% (07)	Report on the Global AIDS Epidemic 2008, UNAIDS (Geneva: UNAIDS, 2008).
Number receiving ART	549,700 (08)	PEPFAR country profile for South Africa, as of September 2008, <a href="http://www.pepfar.gov/countries/southafrica/index.htm">http://www.pepfar.gov/countries/southafrica/index.htm</a> .
Number of IDUs on ART	N/A	
People on MMT	N/A	
Number of MMT sites	N/A	
Methadone dosing/range	N/A	
Methadone/buprenorphine start year	2005	Country expert report from Charles Parry.
Number of NSP sites		

Number of syringe distributions/year		
Individuals accessing NSP/year		
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	9,600	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need based on 20% coverage of estimated number of opioid injectors)	1,920	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$1,363,824	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	3,840	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$2,727,648	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	3,200	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$22,400	
Mean bound (40%) coverage of estimated number of IDUs	6,400	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$44,800	
Upper bound (60%) coverage of estimated number of IDUs	9,600	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$64,000	

Note: R = registered data; E = estimated data; N/A = not available.



**Table C13. Tanzania: Selected Facts on the Injecting Drug Population and Treatment Programs, 2004–2008**

Injecting Drug Population		
Estimated total country population	40,213,162	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	E: 25,000 (year not provided)	"Drug Abuse and HIV/AIDS in Tanzania," presentation by the Tanzania delegation at the Regional Consultation on HIV among Injecting Drug Users and in Prison Settings in Eastern and Southern Africa, Mombasa, Kenya, November 26–29, 2007.
Gender distribution (M/F)%	N/A	
Adults living with HIV/AIDS	E: 1,400,000 (1,200,000–1,400,000) (08)	<i>Report on the Global AIDS Epidemic 2008</i> , UNAIDS (Geneva: UNAIDS, 2008).
Proportion of cumulative HIV cases caused by IDU	N/A	
Adults living with HIV who are IDUs	22,000 (2,500–57,500)	Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject Drugs: A Systematic Review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).
Adult HIV prevalence among IDUs	27% (male); 62% (female); 65% (04 in Dar es Salaam)	"Alcohol, HIV Risk Behaviors and Transmission in Africa: Developing Programs for the President's Emergency Plan for AIDS Relief," PEPFAR, Dar es Salaam, Tanzania, August 29–31, 2005.
Number receiving ART	144,100 (08)	PEPFAR Country Profile for Tanzania, as of September 2008, <a href="http://www.pepfar.gov/press/countries/profiles/116320.htm">http://www.pepfar.gov/press/countries/profiles/116320.htm</a> .
Number of IDUs on ART	N/A	
People on MMT	0 (09)	
Number of MMT sites	N/A	
Methadone dosing/range	N/A	
Methadone/buprenorphine start year	N/A	
Number of NSP sites	N/A	
Number of syringe distributions/year	N/A	
Individuals accessing NSP/year	N/A	
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	15,000	

<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	3,000	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$2,130,975	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	6,000	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$4,261,950	
<b>Needle and Syringe Exchange Program Cost Estimate</b>		
Lower bound (20%) coverage of estimated number of IDUs	5,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$35,000	
Mean bound (40%) coverage of estimated number of IDUs	10,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$70,000	
Upper bound (60%) coverage of estimated number of IDUs	15,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$100,000	

**Note: R = registered data; E = estimated data; N/A = not available.**

**Table C14. Kenya: Selected Facts on the Injecting Drug Population and Treatment Programs, Various Years, 2004–2009**

Injecting Drug Population		
Estimated total country population	37,953,840	U.S. Central Intelligence Agency's World Fact Book, <a href="http://www.cia.gov/library/publications/the-world-factbook">http://www.cia.gov/library/publications/the-world-factbook</a> .
Number of IDUs	R: 3,396 (09) E: 30,000 (05)	Country expert report from Peter K Ndege.  Carmen Aceijas et al., "Estimates of Injecting Drug Users at the National and Local Level in Developing and Transitional Countries, and Gender and Age Distribution," <i>Sexually Transmitted Infections</i> 82, Supplement 3 (2006).
Gender distribution (M/F)%	89/11	Country expert report from Peter K. Ndege.
Adults living with HIV/AIDS	E: 1,490,000 (1,380,000–1,580,000) (09)	The Kenya 2007 HIV and AIDS Estimates and Interim Projected HIV Prevalence and Incidence Trends for 2008 to 2015, National AIDS Control Council and National AIDS and STD Control Programme, July 2009.
Proportion of cumulative HIV cases caused by IDU	4.8% (05)	Clement Deveau et al., "Prevention of HIV/AIDS among Drug Users as a Vulnerable Population," presentation at the HIV/AIDS Implementers Meeting of the President's Emergency Plan for AIDS Relief, Durban, South Africa, 2006.
Adults living with HIV who are IDUs	64,500 (12,000–132,000) (04)	Bradley M. Mathers et al., "Global Epidemiology of Injecting Drug Use and HIV among People Who Inject Drugs: A Systematic Review," <i>Lancet</i> 372, no. 9651 (November 15, 2008).
Adult HIV prevalence among IDUs	42.9 (36.3–49.5) (08)	Caroline Cherotich, project assistant, UNODC Regional Office for Eastern Africa, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Kenya," Reference Group to the UN on HIV and Injecting Drug Use, 2009.

Number receiving ART	229,700 (08)	PEPFAR country profile for Kenya, as of September 08, <a href="http://www.pepfar.gov/press/countries/profiles/116231.htm">http://www.pepfar.gov/press/countries/profiles/116231.htm</a> .
Number of IDUs on ART	38 (08)	Caroline Cherotich, project assistant, UNODC Regional Office for Eastern Africa, response to the "UN HIV and IDU Reference Group: Request to Fill Data Gaps—Kenya," Reference Group to the UN on HIV and Injecting Drug Use, 2009.
People on MMT	0 (09)	
Number of MMT sites	Not applicable	
Methadone dosing/range	Not applicable	
Methadone/buprenorphine start year	Not applicable	
Number of NSP sites	2	John-Peter Kools, "Drug Use and HIV risk among Young People in Sub-Saharan Africa," Stop AIDS Now! Netherlands, 2008, <a href="http://www.stopaidsnow.org/documents/drug_use_africa_2008_report.pdf">http://www.stopaidsnow.org/documents/drug_use_africa_2008_report.pdf</a> .
Number of syringe distributions/year	N/A	
Individuals accessing NSP/year	N/A	
Estimated opioid injectors among IDUs (estimated at 60% of all IDUs)	18,000	
<b>Methadone Program Cost Estimate</b>		
Lower bound gap (number in need, based on 20% coverage of estimated number of opioid injectors)	3,600	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$2,557,170	
Upper bound gap (number in need, based on 40% coverage of estimated number of opioid injectors)	7,200	
Mean cost of methadone/year (based on unit cost range of \$363.65–1,057/year)	\$5,114,340	

Needle and Syringe Exchange Program Cost Estimate		
Lower bound (20%) coverage of estimated number of IDUs	6,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$42,000	
Mean bound (40%) coverage of estimated number of IDUs	12,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$84,000	
Upper bound (60%) coverage of estimated number of IDUs	18,000	
Mean cost of NSPs (based on unit cost range of \$4–10/year)	\$120,000	

Note: R = registered data; E = estimated data; N/A = not available.



## ABOUT THE AUTHORS

**Richard Needle**, PhD, MPH, was vice president for special populations and senior project manager at Pangaia Global AIDS Foundation from January 2007 to September 2009. Dr. Needle was responsible for assisting Pangaia's partners in the planning and implementation of HIV prevention and treatment initiatives that target high-risk populations, including injecting drug users, men having sex with men, women, and commercial sex workers. Previously, he worked for the U.S. government for 17 years. He was team leader for HIV prevention among injection drug-using populations for the Global AIDS Program of the Centers for Disease Control and Prevention (2001–2007). He was also co-chair of the Office of the U.S. Global AIDS Coordinator's Technical Working Group on Prevention of HIV among Persons Engaged in High-Risk Behaviors from 2004–2007. In this position, he was responsible for initiating, reviewing, implementing, and monitoring activities between OGAC and the field related to the prevention of HIV in most-at-risk populations.

Dr. Needle was senior advisor for drug and HIV/AIDS at the U.S. Department of Health and Human Services (2000–2001), and before that chief of the community research branch, Division of Epidemiology and Prevention Research, at the National Institute on Drug Abuse (1990–1999). Dr. Needle has recently accepted a position as senior public health adviser in the U.S. President's Emergency Plan for AIDS Relief Office of the U.S. Global AIDS Coordinator. The document authored by Dr. Needle and Ms. Lin Zhao was completed before he started his new position.

**Lin Zhao** is currently a PhD student in nursing at the University of California, San Francisco. Her professional and academic experience spans three countries—HIV clinical and program management work in China with the Clinton Foundation, clinical experience and degrees in Australia, and doctoral studies in the United States. Her research focuses on identifying barriers to providing viable service delivery models that link to drug treatment and antiretroviral treatment services in the community, a sophisticated design and evaluation of community-based intervention, and specific strategies to ensure community engagement and successful outcomes.

