

Fact Sheets on HIV/AIDS Care and Treatment

Updated October 2004







ADULT HIV PREVALENCE	3 X 5 ART TARGET	CURRENT ART COVERAGE (%)
0.6% (UNAIDS, 2003)	0 (31/7/2004)	100% (31/7/2004)

1. Introduction

In 2003, the WHO developed a comprehensive strategy that outlines how life-long antiretroviral treatment can be provided to 3 million people living with HIV/AIDS in poor countries by the end of 2005. For the Americas, this initiative translates to a goal of providing 600 000 people living with HIV/AIDS with life-long antiretrovirals.

Within this framework, this Care and Treatment Fact Sheet was developed by the HIV/AIDS unit at PAHO/WHO in an effort to collate the most recent country-specific data on the care and treatment of people living with HIV/AIDS. It gathers information on antiretroviral coverage, lines of treatment, and average prices/year, as well as comprehensive information on laboratory diagnostic and human resources capacity, and voluntary counseling and testing. Finally, this fact sheet also includes details on the various agencies and NGOs working in the country on the fight against HIV/AIDS. The goal is for it to be updated each year until at least 2005, specifically to measure the progress in the 3 by 5 initiative, and preferably thereafter to continue to monitor the improved care and treatment of people living with HIV/AIDS.

The information in these fact sheets was compiled by PAHO/WHO, in collaboration with country focal points and national authorities from the Ministries of Health and NGOs. Not unexpectedly, information on all the agreed-upon indicators was not available for each country. However, these Care and Treatment Fact Sheets do contain a wealth of information that will showcase the particular strengths in current existing programs and comparison between countries. The Fact Sheet will also be instrumental in identifying some weaknesses that can be addressed in the future, either by PAHO/WHO or by another agency/NGO.

Clearly, the fact sheets are as good as the information made available to PAHO/WHO HIV/AIDS unit. Therefore, the HIV/AIDS unit would like to encourage program managers as well as national and international experts to communicate additional information to them, in order to maintain and update the Fact Sheets as needed.

For specific information on the prevalence and incidence of HIV/AIDS, behavior, and prevention strategies, please refer to the country-specific Epidemiological Fact Sheet on HIV/AIDS and STIs, compiled and updated by UNAIDS/WHO.

Epidemic level and trend, for the year -	1990	1995	2000	2002	2004	2006
Prevalence in adults (%)		0.6	0.6	0.6	0.6	
Prevalence in children < 5 years (%)						
Prevalence in children >= 15 and < 20 years (%)						
Prevalence in pregnant women (%)		0.7 (1996)		0.4-0.6		
Gender data and major risk behaviors of HIV/AIDS	1990	1995	2000	2002	2004	2006
Male : female ratio	5.4	2.8	1.8	1.7		
Mechanism for transmision (%)						
Sexual	52	58.1	70.3	72.3		
Perinatal	2.2	3.3	2.7	2.3		
IDU	28.9	21.9	13.4	11.2		
Blood products	3.5	1.7	0.1	0.1		
Unknown	13.3	15.1	13.4	14		

- Is there a national policy on comprehensive ART?
- Is there a national policy on HIV testing?

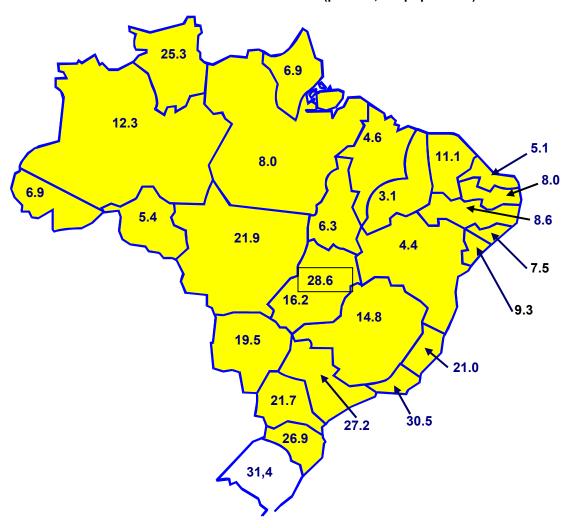
The "Three Ones"

- Is there ONE agreed HIV/AIDS national framework? No____ Yes X_ Dates? _____
 Year of last revision: ____ Title? _____
- Is there ONE coordinating national authority?
 Name? <u>National AIDS Control Program</u>

 No____ Yes <u>X</u> Since when? <u>1985</u>
- Is there ONE agreed country level monitoring and evaluation system? No___ Yes __ Since when? ____

Geographic distribution of HIV/AIDS, by major political districts

Incidence rates for 2003 (per 100,000 population)



Source: MS/SVS/PN DST and AIDS/SINAN

Demographic and Socio-economic indicators			
	Estimate	Date	Source
Total Population (thousands)	179,108,134	2004	IBGE
Life Expectancy at Birth	68.4	2003	OPS
Under 5 mortality rate (per 1000 children)	36	2004	UNICEF
Adult mortality rate (per 1000 adults)	Mujeres: 136 Hombres: 246	2002	OMS
GNI Per Capita (US\$)	2,830	2002	Banco Mundial
% Government Budget Spent on Health Care	8.8	2001	OMS
Per Capita Expenditure on Health (US\$)	222	2001	OMS
% Health Care Budget spent on HIV/AIDS	2.6%	2003	SIDALAC

2. Antiretroviral Treatment (ART)

This section contains information about the number of people living with HIV/AIDS who require ART and the number who receive it. "People" refers to all ages and sexes. The data come from several sources, listed below, but primarily from UNAIDS or PAHO, where possible, for consistency reasons. The difference between those people requiring ART and not receiving it is the Treatment Gap, which is also the ART target for achieving universal coverage by 2005. Data on ART regimens, guidelines used, and cost of ART is also found in this section, as well as specific ARVs used and the amount required per year, the sources of which are primarily from the Ministries of Health and local NGOs of each country, unless otherwise specified.

Α	RT surveillan	ce						
			31/7/ 2003	Source	31/7/ 2004	Source	2005	Source
1	Estimated # o	f people living with HIV/AIDS	610,000	UNAIDS	660,000	МОН		
2	Estimated # o	f people requiring ART **	135,000	UNAIDS	154,000	MOH		
	** Previous es	timate is done by: Applying the 20% s	tandard to t	he#ofPLV	/HI (#1 in ta	ble) No	_ Yes	_
	Or by using	other method of estimating? No	Yes Sp	ecifiy				
	% female	(# females requiring ART / total people requiring ART x 100)						
	% < age 5	(# under 5 requiring ART / total people requiring ART x 100)						
3	Estimated # o	f people receiving ART	125,168	WHO	154,000	МОН		
	% female	(# females receiving ART / total people receiving ART x 100)						
	% < age 5	(# < 5 receiving ART / total people receiving ART x 100)						
4	Estimated Tre	atment Gap (2 – 3)	9832		0			
5	% ART covera	ge (3 / 2 x 100)	92.7%		100%			
6	% of health di	stricts that have at least one ART outle	et					
	, -	health districts with at least one ART t / total # of health districts x 100)	100%	MOH				
7		among ART users (# deaths of ART pulation x 100,000)						
8	HIV/AIDS for a	d occupancy by People infected by a given month (# hospital beds occupied a given month / # hospital beds occupied onth x 100)						

ATF	R, plans and regimens
•	Are ART treatment protocols in use? No Yes X_ Since when? Name?
•	Have revisions been made to the protocols? No Yes When?
•	Do the criteria for determining ARV needs include: o CD4 count No Yes X
	 Viral Load No Yes X Opportunistic Infections No Yes X
•	Specify treatment regimens:
	 First line regimen for adults: <u>Initial therapy is usually composed of two NRTI (preferably AZT/3TC or d4T/3TC) associated to one NNRTI (EVR) or one PI (NFV or LPV/r)</u> Alternative regimen for adults: <u>Two NRTI (AZT/ddl, ddl/3TC, or ddl/d4T) and one NNRTI (NVP) or one PI (SQV/r or IDV/r).</u>
	First line regimen for new borns: Alternative regimen for new borns: First line regimen for children: Zidovidune and Efavirenz
	Alternative regimen for children: First line regimen for prevention mother-to-child transmission Zidovidune from the third month to delivery
Vhat	is the average cost or first line ARV regime per person / per year in US dollars?
	jimen 2000 2002 2004 2006
	t line regimen for adults in the public sector 4,137.20 1,540* (2001)
	rnative line regimen for adults in the public sector
	t line regimen for adults in the private sector
	rnative line regimen for adults in the private sector
* M	linisterio de Saude, 2001.
• At th	Is there a system in place to register adverse reactions involving the use of ARV? ne national level: No Yes Since when? or institutional. No Yes Since when? Is there a system in place to register drug resistance involving the use of ARV?
At th	ne national level: No Yes X_ Since when? or institutional. No Yes Since when?
• No_ <u>FUR</u>	Does the Government purchase Generic ARVs? Yes X Since when? From what pharmaceutical companies? Far-Manguinhos/FIOCRUZ/MS, RP/SP, LAFEPE/PE, FUNED/MG, IQUEGO/GO, IVB/RJ
	State what % of ART delivery is covered by MOH, other ministries, NGOs, etc. 2000 2002 2004 2006
Mini	istry of Health 100%
	istry of Social Security
	er ministries
	ned Forces/Military
NG	•
Othe	
	2000 2002 2004 2006
Sne	cify the number of NGOs offering ARV treatment

Specify the number of NGOs offering ARV treatment in your country?

Antiretrovirals used				Price/unit (US\$)			Number of units purchased for the year *			
Generic name	Product name	Strength	Unit used	2003	2004	2005	2003	2004	2005	
Zidovudine		100mg	Capsules	0.11	0.11		15.524.7 80	5.788.100	17.000.000	
Zidovudine		10mg/ml Fl.200ml	Oral solution	2.96	2.96		146.242	129.870	147.000	
Zidovudine		10mg/ml Fl 20ml		1.40	1.40		10.936	12.480	23.000	
Didanosine		25 mg	Buffered tablets	0.07	0.07		1.820.70 0	917.700	438.000	
Didanosine		100 mg	Buffered tablets	0.31	0.31		16.899.8 40	8.136.000	8.700.000	
Didanosine		250 mg	Coated tablets	(a)	(a)		0	123.000	420.000	
Didanosine		400 mg	Coated tablets	(a)	(a)		0	810.000	2.610.000	
Zalcitabine		0.75 mg	Tablets	(b)	(b)		0	0	0	
Lamivudine		150 mg	Tablets	0.23	0.23		23.236.9 20	26.227.500	28.200.000	
Lamivudine		10mg/ml Fl.240ml	Oral solution	8.13	8.13		65.047	45.640	71.900	
Stavudine		30 mg	Tablets	0.08	0.09		7.858.380	4.147.500	7.200.000	
Stavudine		40 mg	Tablets	0.19	0.18		20.230.8 00	14.504.520	19.200.000	
Abacavir		300 mg	Tablets	1.86	1.86		1.132.44 0	1.991.220	1.200.000	
Zidovudine + Lamivudine	Combivir	300 mg + 150 mg	Tablets	0.46	0.46		40.838.7 00	47.719.920	60.000.000	
Delavirdine	Rescriptor	100 mg	Tablets	(b)	(b)		0	0	0	
Efavirenz	Sustiva	200 mg	Capsules	(b)	(b)		0	0	1.980.000	
Efavirenz	Sustiva	600 mg	Capsules	2.10	1.575		15.479.6 70	22.514.400	27.000.000	
Nevirapine		200 mg	Tablets	0.28	0.28		15.940.2 60	10.792.620	13.380.000	
Amprenavir	Agenerase	150 mg	Capsules	0.68	0.68		4.746.48 0	2.520.000	1.368.000	
Indinavir	Crixivan	400 mg	Capsules	0.39	(c)		34.677.0 00	0	2.880.000	
Lopinavir/r	Kaletra	133.3/33.3 mg	Capsules	1.50	1.30		23.774.5 80	39.555.000	64.800.000	
Nelfinavir	Viracept	250 mg	Tablets	0.52	0.468		78.036.7 50	45.850.050	36.720.000	
Saquinavir	Invirase	200 mg	Capsules	0.48	0.5304		0	10.800.000	5.760.000	
Ritonavir	Norvir	100 mg	Capsules	0.44	0.44		8.912.73 6	0	5.880.000	

Generic Product Unit used	
name Strength ** 2003 2004 2005 2003 2004	2005

3. Laboratory capacity and funding for procurement

For HIV/AIDS to be properly diagnosed and treated at the appropriate time, laboratories need to have access to the right tests at the best price. This section describes the diagnostic and follow-up tests available to the country and the number of tests required for the given year. This section also considers the coverage of laboratories throughout the country, the monitoring and surveillance systems in place, as well as the source of financing for procuring ARV and diagnostic tests.

HIV diagnostic/follow-up tests, Prices & Amount Tests used			Price/test (US\$)			Number of tests require the year		
Туре	Diagnostic product	2003	2004	2005	2003	2004	2005	
Screening tests	Rapid tests							
	Elisa							
	Agglutination							
Confirmation tests	Western Blot							
	Indirect Immunofloresence							
Follow-up	CD4/CD8 Count							
	Viral load: Technique Plasma							
	Genotyping							

Laboratory services for HIV diagnostics				
	2000	2002	2004	2006
% of health districts that have at least one laboratory service for HIV diagnosis (# of health districts with at least one lab service / total # of health districts x 100)				
Is there a system for quality control of laboratory services? At the national level: No Yes X_ Since when? or institution.	al. No	Yes	Since when?	
Is there a system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in place for conducting external evaluations of the system in the sys	f the quality of	of laborators	v services?	
At the national level: No Yes _X_ Since when? or institutional				
			_	
Financing and procurement for ARV and diagnostic tests				
What is the principal source of financing for ARV purchase?? (i)	.e. through na	tional budget	t, global fund, ou	it of pocket,
bilateral or private donors, etc.) National Health Budget		_		
What is the principal source for financing HIV diagnostic supplies.	es? (i.e. throu	gh national t	oudget, global fu	nd, out of
pocket, bilateral or private donors, etc.) National Health Budget				
to ADT and an extended an extended the through				
Is ART procurement done primarily through a				
 centralized procurement mechanism (at national or p 	•		Yes _X	
 or decentralized procurement mechanism (at instituti 	onal level)	No <u>X</u>	_ Yes	
How is price collisitation for ADVs obtained?				
How is price solicitation for ARVs obtained? Through national tander.	No	_ Yes		
Through national tender Through international tender		res _ Yes		
 Through international tender From a limited number of local/international suppliers 		Yes		
		Yes		
0.11	NO	_ 165		
o Other?				
Are HIV/AIDS medicines required to be registered by the nation	al regulatory	authority?		
No Yes Since when?	ai regulatory	authority		
Are the HIV medicines under patent protection in the country?	No Yes	Since	when?	
and the meaning and patent protestion in the country.				-
Are ARVs subject to quality control testing prior to product use	? No Ye	s Sind	ce when?	

4. Voluntary Counseling and Testing, Prevention of Mother to Child Transmission programs, and joint HIV/AIDS and TB/STI programs

Although Voluntary Counseling and Testing (VCT) and Prevention of Mother to Child Transmission (PMTCT) programs fall partly under prevention activities, they also fall under the "Care and Treatment" component, since their testing sites provide an interface between the diagnosis and the follow-up activities. TB and STI programs are also important entry points for Care and Treatment, given the high co-morbidity of TB and HIV/AIDS as well as other STIs and HIV/AIDS. This section therefore describes the coverage of VCT, PMTCT, and TB/STI services as well as the quality and comprehensiveness of such programs.

Voluntary Counseling and Testing (VCT) in the public sector								
	31/7/ 2003	Source	31/7/ 2004	Source	2005	Source		
% of health services (primary, secondary, or tertiary) that offer VCT services out of all health services that should provide VCT services. (# of health services (primary, secondary, or tertiary) that offer VCT services / total # health services that should provide VCT services x 100)	*		*					
% of health districts with at least one functioning VCT service (# of health districts with at least one functioning VCT service / total # of health districts x 100)	100%	convêni os	100%	convêni os				
# clients who used VCT services in public sector during the given year	> 4.4 million tests	ARI						
% female clients (# women attending VCT services in public sector / total # clients of the public VCT services x 100)	64%	SI-CTA	65%	SI-CTA				
# clients who used VCT services in NGO sector during the given year	**		**					
% female clients (# women attending VCT services in NGO sector / total # clients of the NGO VCT services x 100)								
% of persons who return for their results (# of persons who return for results / total # of tests done at VCT services x 100)	78,7%	***	74,2%	***				
% of persons who receive post-test counseling (# of persons who come for post-test counseling / total # of tests done at VCT services x 100)	78,7%	***	74,2%	***				
% of positive HIV tests at VCT services (# of tests at VCT services with positive results / total # of tests done at VCT services x 100)	1,54	SI-CTA	2,94	SI-CTA				

^{*} Em 2003, havia no Brasil 249 CTA; em 2004, esses serviços passaram para 289, superando a meta governamental de implantação de serviços especializados de testagem e aconselhamento. A partir de 2003, os Programas Estaduais de DST/Aids passaram a ampliar o diagnóstico da infecção pelo HIV para rede básica de saúde, obedecendo ao princípio da descentralização do Sistema Único de Saúde. Os municípios definem a necessidade de ampliação do número de serviços realizando testagem, levando-se em consideração critérios epidemilógicos e estruturas de serviço disponíveis.

Em 2002, a cobertura nacional de diagnóstico do HIV existente (30%) apontava a necessidade premente de ampliação. Em resposta à esta necessidade, foram estabelecidas e atingidas metas de ampliação para os anos de 2003 (50%) e 2004 (60%).

^{**} Informação não disponível para o setor governamental.

^{***} Dados obtidos a partir dos relatórios do sistema informatizado de 06 CTA, localizados nos municípios de São Luís (MA), Sinop (MT), Rio de Janeiro (RJ), Palmas (TO), Brasília (DF) e Curitiba (PR). Os serviços selecionados são considerados representativos das realidades regionais.

VCT framework and country strategies						
Is VCT part of the Primary Health care package? No Yes _X Since when?						
Is VCT integrated into a global health network that included No YesX_ Since when?1988	udes medi	cal, social a	nd emoti	onal suppo	rts?	
Is there a system for quality management system for V No YesX_ Since when?1988	CT activiti	es?				
Is there an operational strategy for identifying barriers No YesX Since when?1990	to VCT?					
Prevention of Mother to Child Transmission (PMTCT)	services	in the pub	olic secto	or		
	31/7/ 2003	Source	31/7/ 2004	Source	2005	Source
% of heath services that provide PMTCT services of those that should provide PMTCT services (# of heath services that provide PMTCT services / total # of health services that should provide PMTCT services x 100)						
# of women who used PMTCT services during the given year						
% of women tested for HIV at PMTCT services (# of women tested for HIV / # of women who used PMTCT services x 100)	72.5	МОН				
% of women tested who tested positive for HIV (# of women tested at PMTCT who tested positive for HIV / # of women tested for HIV who used PMTCT services x 100)						
% of babies born of HIV+ mothers with a confirmed diagnosis of HIV (# of babies born of HIV+ mothers with confirmed HIV status / # of babies born of HIV + mothers x 100)	20%	МОН				
100)	2070	WIOH				
PMTCT programs						
Are there protocols/guidelines used for PMTCT service	es?	No	Yes	Since w	hen?	
Is there a national plan for PMTCT services?				Since who		
Tuberculosis, Sexually Transmitted Infections, and H	IV/AIDS s	ervices in	the pub	lic sector		
	31/7/ 2003	Source	31/7/ 2004	Source	2005	Source
% of health services that diagnose and treat TB and offer concurrent VCT services for HIV/AIDS (# of health services that offer TB diagnosis and treatment and concurrent VCT services / total # of health services that treat and diagnose TB x 100)						
% of health services that offer STI treatment services and offer concurrent VCT services for HIV/AIDS (# of health services that offer STI diagnosis and treatment services and concurrent VCT services / total # of health services that treat and diagnose TB x 100)						

5. Trained Human Resources

The presence of sufficient trained human resources in all aspects of HIV/AIDS care and treatment is essential in the fight against HIV/AIDS. This section describes the coverage of trained health care workers, certification and accreditation mechanisms, and the existence of guidelines for supervising staff.

Human Resource capacity						
	31/7/ 2003	Source	31/7/ 2004	Source	2005	Source
# of Doctors who participated in ART training, during the given year						
# of Nurses who participated in ART training, during the given year						
# of other heath workers who participated in ART training, during the given year						
% of health care workers trained in ART (# of doctors, nurses, health care workers trained in ART [including those trained before 2003] / total # of doctors, nurses, health care workers in the country x 100)						
# of Doctors who participated in VCT training, during the given year	*					
# of Nurses who participated in VCT training, during the given year						
# of other heath workers / community members who participated in VCT training, during the given year						
% of health care workers trained in VCT (# of doctors, nurses, health care workers trained in ART [including those trained before 2003] / total # of doctors, nurses, health care workers in the country x 100)						
# of Doctors who participated in PMTCT training, during the given year						
# of Nurses who participated in PMTCT training, during the given year						
# of other heath workers who participated in PMTCT training, during the given year						
% of health care workers trained in PMTCT (# of doctors, nurses, health care workers trained in ART [including those trained before 2003] / total # of doctors, nurses, health care workers in the country x 100)						

^{*} Os programas de capacitação de recursos humanos para o aconselhamento em HIV/Aids são planejados e executados pelos Programas de DST/Aids locais. O Programa Nacional elabora propostas de capacitação que são repassados para os CTA, que multiplicam para as Unidade Básicas de Saúde. O número de profissionais e equipes multidisciplinares treinadas não é repassado para o nível federal.

Human Resource capacity, continued						
	31/7/ 2003	Source	31/7/ 2004	Source	2005	Source
# of laboratory workers who participated in laboratory training for HIV diagnosis testing and/or follow-up, during the given year						
# of heath care workers (doctors, nurses, other health care workers) who participated in stigmatization reduction strategies training, during the given year						
% of health care workers who participated in stigma reduction strategies training (# of doctors, nurses, health care workers trained in stigma reduction training [including those trained before 2003] / total # of doctors, nurses, health care workers in the country x 100)						
# of heath care workers (doctors, nurses, social workers, other health care workers) who participated in training for psycho-social support services, during the given year						
# of community members (PLWHA, family of PLWHA, other community members) who participated in training for offering psycho-social support services, during the given year						

Н	П	m	าล	n	re	2	O	Πr	C	es

•	Is there a national accreditation process for training institutions and programs in HIV/AIDS? No Yes Since when?
•	Is there a certification process for HIV/AIDS training providers? No Yes Since when?
•	Is there a certification process for HIV/AIDS training participants? No Yes Since when?
•	Are there national standards for evaluating the competence of health workers involved in scaling up ART? No Yes Since when?
•	Is there a National Plan for ART, VCT, PMTCT training? No Yes: Since when?

Data sources

Data presented in this Fact Sheet on Care and Treatment of People Living with HIV/AIDS comes from several sources, primarily in the country, but also globally. This section contains a list of the more relevant sources used to prepare the Fact Sheet. If applicable, it also lists websites where additional information on HIV/AIDS can be found, however, the information found on these sites could change or may be incomplete, so due consideration must be taken.

- UNAIDS National Responses: http://www.unaids.org/nationalresponse/result.asp
- Proyecto presentado al Fondo Global para SIDA, malaria y tuberculosis, 2003. www.theglobalfund.org
- Informe sobre la epidemia mundial de SIDA, ONUSIDA, diciembre 2002. www.unaids.org
- Situación de la epidemia de SIDA, UNAIDS, diciembre de 2003
- Informe de avance, UNGASS 2003 2004
- UNAIDS/WHO Epidemiological Fact Sheets for HIV and STIs: 2002 update.
- Ministério de Saúde, Porgrama Nacional de DST e Aids, www.aids.gov.br
- Galvão, Jane. "Access to antiretroviral drugs in Brazil". The Lancet, November 5, 2002
- Goldani, Marcelo Zubaran, Giugliani, Elsa Regina Justo, Scanlon, Thomas et al. "Voluntary HIV counseling and testing during prenatal care in Brazil". Revista Saúde Pública, Oct. 2003, vol.37, no.5, p.552-558. ISSN 0034-8910.
- Releve Epidemiologique Hebdomadaire, No 50, 2001, p 393.
- Bacon O, Pecoraro ML, Galvão J, Page-Shafer K, HIV/AIDS in Brazil. AIDS Policy Research Center, University of California San Francisco August 2004. http://ari.ucsf.edu/ARl/policy/profiles/Brazil.pdf

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Contact information

For more information on care and treatment of people living with HIV/AIDS in this country, please contact the HIV/AIDS unit at the Pan American Health Organization, by phone at (202) 974-3842 or by email at sida@paho.org.