



6. Indicators from
Integrated Aids/HIV/STIs
Surveillance System of
Catalonia (SIVES) and other
sexual and reproductive
health (SRH) indicators

Next tables includes indicators which appear into the document from SIVES and, as an innovation in new edition It is including a selection of indicators which takes into account SRH aspects (contraception, fertility, IA, access to health settings). The aim is having a core of indicators comparable at national and international level. Indicators underlined in green are UNAIDS recommendations (UNGASS indicators) applicable in our context [1].

The main topics to classify core of indicators:

- Level of Politics Development and Implementation
- HIV/AIDS Morbi-mortality
- HIV Diagnosis
- Knowledge, Attitudes and Behaviours
- STI
- Other SHR Indicators

In “Knowledge, attitudes and behaviours” and STI tables, indicators are disaggregated by population:

- General population
- MSM
- FSW
- IDUs
- Young People

1. Level of Politics Development and Implementation.			
Indicator	Source	Last data available	Figure
UNGASS 4. Percentage of adults aged >16 with advanced VIH infection receiving ART*	PISCIS Cohort	Accumulate 1998-2009	80.70
UNGASS 5. Percentage of HIV-positive pregnant women who receive antiretroviral medicines to reduce the risk of mother-to-child transmission	NENEXP Project, Register of vertical transmission (RTV, according to the Catalan acronym)	2009	87.40
UNGASS 24. Percentage of adults aged >16 with HIV known to be on treatment 12 months after initiation of ART*	PISCIS Cohort	Accumulate 1998-2009	88.90
UNGASS 7. Percentage of people aged 18-49 who received an HIV test in the last 12 months and who know the results*	Health and Sexual Habits Survey (ESHS, according to the Spanish acronym) [2]	2003	23.80
UNGASS 8. Percentage of MSM that have received an HIV test in the last 12 months and who know the results*	Behavioural surveillance (CEEISCAT) SIALON Project†	2008	60.00
UNGASS 8. Percentage of IDU that have received an HIV test in the last 12 months and who know the results*	Behavioural surveillance (CEEISCAT)	2008-2009	46.10
UNGASS 8. Percentage of FSW that have received an HIV test in the last 12 months and who know the results*	Behavioural surveillance (CEEISCAT)	2007	67.40
UNGASS 9. Percentage of MSM reached with HIV prevention programmes*	Behavioural surveillance (CEEISCAT). SIALON	2008	85.60
UNGASS 11. Percentage of schools which implement Salut i Escola Program*	Salut i Escola Program (Generalitat de Catalunya)‡	Until June of 2008	88.90

* UNGASS indicator adaptation; / † Sialon Project. Capacity building in HIV/Syphilis prevalence estimation using non-invasive methods among MSM in Southern and Eastern Europe. European multicentric project included in MSM behavioural surveillance of CEEISCAT; / ‡ Salut i Escola Institutional program borned in 2004 and motivated for both Health and Education Departments of Generalitat de Catalunya.

2. HIV/AIDS Morbi-mortality.				
Indicator	Source	Last data available	Disaggregate	Figure
UNGASS 23. Prevalence of most-at-risk populations who are HIV infected	HIV sentinel surveillance	2006-09	By sentinel populations	Newborns: 0.15
				Workers in routine medical tests: 0.20
				Blood donor: 0.01
				IDU recruited on the street: 58.10
				IDU in harm reduction centers: 34.50
				IDU at the beginning of treatment: 41.00
				MSM*: 20.40
				FSW: 2.50
				Jailed population: 14.70
				Patients with tuberculosis: 23.33
UNGASS 25. Percentage of infants born to HIV-infected mothers who are infected	NENEXP Project, RTV	2009		2.18
VT rate in Catalonia	NENEXP Project, RTV	2009		1.45
Rate HIV-infected pregnant women that have been diagnosed before delivery	NENEXP Project, RTV	2009		96.48
Rate of newborns of HIV infected women that have been exposed to antiretroviral prophylaxis during pregnancy, birth and the first 48 hours post-partum	NENEXP Project, RTV	2009		93.77
Incidence rate of new HIV diagnosis global, by sex, by age group†	New HIV diagnosis information system in Catalonia	2008	Global	8.64
			By sex	Men: 13.79 Women: 3.54
			By age group	16-24: 7.85 25-44: 17.77 45-49: 5.85 >=65: 1.23
Percentage (number) of new HIV diagnosis by transmission group‡	New HIV diagnosis information system in Catalonia	2008	By sentinel populations	IDU: 6.00 (38) Homo/bisexuals: 43.90 (279) Heterosexual: 42.10 (268) Other: 8.00 (51)
Percentage (number) of new HIV diagnosis by country of origin†	New HIV diagnosis information system in Catalonia	2008	By country of origin	Spain: 52.80 (336) Other: 47.20 (300)
HIV incidence rate global, by sex, by age group (per 100,000 inhabitants)	AIDS registry in Catalonia	2008	Global	3.10
			By sex	Men: 4.86 Women: 1.35
			By age group	<15: 0.00 16-24: 1.18 25-44: 5.39 45-64: 4.08 >=65: 0.57
Years of potential life lost due to HIV (per 1,000 inhabitants/year)	AIDS registry in Catalonia	Accumulate 1998-2009		347.10
Percentage of survivor among HIV infected	PISCIS Cohort	Accumulate 1998-2009		90.80
Percentage of survivors among AIDS cases at 18th month	PISCIS Cohort	Accumulate 1998-2009		80.40





Indicator	Source	Last data available	Disaggregate	Figure
HIV mortality rate global and by age (per 1,000 inhabitants/year)	PISCIS Cohort	Accumulate 1998-2009	Global	17.10
			By age group	20-24: 9.50 25-29: 5.80 30-34: 11.20 35-39: 15.00 40-44: 20.50 45-49: 20.70 50-54: 23.10 55-59: 24.60 60-64: 24.80 >65: 38.60
Life expectancy of HIV infected at the age of 20	PISCIS Cohort	Accumulate 1998-2009		39.20

* Sialon Project: The same centres of recruitment than previous years has been selected; / † Available disaggregate by health region inside the document; / ‡ Available disaggregate by health region and sex inside the document.

3. HIV diagnosis.

Indicator	Source	Last data available	Disaggregate	Figure
Rate of carried out HIV diagnosis tests per year (per 1,000 inhabitants) global and by health region	HIVLABCAT	2008	Global	Catalonia: 39.80
			By health regions	Barcelona: 44.50 Tarragona: 32.40 Lleida: 53.40 Girona: 29.70 Terres de l'Ebre: 32.60 Cat. Central: 16.50 Alt Pirineu i Aran: -
Rate of positive tests in Catalonia laboratories inhabitants general and by health region	HIVLABCAT	2008	Global	Catalonia: 0.85
			By health regions	Barcelona: 0.95 Tarragona: 0.80 Lleida: 0.46 Girona: 0.36 Terres de l'Ebre: 0.54 Cat. Central: 0.71 Alt Pirineu i Aran: -
Number of yearly carried out HIV tests	HIVDEVO	2008		4,431
Rate of positive tests in anonymous detection centres	HIVDEVO	2008		2.80
Percentage of new HIV cases with delay in diagnosis by sex, by age and transmission group	New HIV diagnosis information system in Catalonia	2008	Global	32.50
			By sex	Men: 33.40 Women: 28.80
			By age group	16-24: 14.80 25-44: 30.90 45-64: 52.90 >=65: 42.90
			By sentinel population	IDU: 29.00 Homosexual/Bisexual: 23.90 Heterosexual: 41.00 Other/without label: 37.80

4. Knowledge, attitudes and behaviours.			
Indicator	Source	Last data available	Figure
General population			
UNGASS 16. Percentage of people aged 18-49 who have had sexual intercourse with more than one partner in the last 12 months*	ESHS	2009	19.40
UNGASS 17. Percentage of people aged 18-49 who have had sexual intercourse with more than one partner in the last 12 months who report using of a condom during their last intercourse *	ESHS	2003	40.20
Percentage of people aged 18-49 who have had occasional partners in the last 12 months and report consistent condom use	ESHS	2003	50.65
Percentage of MSM (some time in their life)	ESHS	2003	6.00
Percentage of people aged 18-49 who have received information about sexual topics by information source	ESHS	2003	Relatives and teachers: 20.50 Peers: 58.80 Professionals: 2.80 Media: 10.80 Nobody: 6.90
Percentage of people who have had a satisfactory communication about sexuality with parents	ESHS	2003	39.20
Percentage of people aged 18-49 who wouldn't work or study with people HIV infected	ESHS	2003	27.34
Percentage of people who have had paid for sex (some time in their life)	ESHS	2003	27.20
MSM			
UNGASS 14. Percentage of MSM who both correctly identify ways of preventing the sexual transmission of HIV and who reject misconceptions about HIV transmission*	Behavioural surveillance (CEEISCAT) SIALON	2008	63.61
UNGASS 19. Percentage of MSM who report the use a condom during last anal sex	Behavioural surveillance (CEEISCAT) SIALON	2008	57.20
Prevalence of consistent condom use in anal sex with stable partners (last 6 months)	Behavioural surveillance CEEISCAT SIALON	2008	37.40
Prevalence of consistent condom use in anal sex with occasional partners (last 6 months)	Behavioural surveillance CEEISCAT SIALON	2008	64.00
Prevalence of UAI during last intercourse with stable partner who has unknown or discordant serologic status (last 12 months)	Behavioural surveillance CEEISCAT SIALON	2008	46.02
Percentage of MSM who have consumed alcohol or other illegal drugs before or during last intercourse (last 6 months)	Behavioural surveillance (CEEISCAT) SIALON	2008	Alcohol: 41.00 Illegal drugs: 56.45
Percentage of MSM who have paid for sex (last 6 months)	Behavioural surveillance CEEISCAT	2008	7.20
Percentage of MSM who have been paid for sex (last 6 months)	Behavioural surveillance CEEISCAT	2008	5.90
FSW			
UNGASS 18. Percentage of FSW reporting the use of condom with last non stable client (last 6 months)*	Behavioural surveillance CEEISCAT	2007	98.70





Indicator	Source	Last data available	Figure
UNGASS 18. Percentage of FSW reporting the use of condom with last stable client (last 6 months)*	Behavioural surveillance CEEISCAT	2007	96.80
Prevalence of consistent condom use in sexual intercourse with clients (last 6 months)	Behavioural surveillance CEEISCAT	2007	94.50
Prevalence of consistent condom use in sexual intercourse with stable partner (last 6 months)	Behavioural surveillance CEEISCAT	2007	13.00
IDU			
UNGASS 20. Percentage of IDU reporting the use of condom at last sexual intercourse with stable partner*	Behavioural surveillance CEEISCAT	2008-09	37.90
UNGASS 20. Percentage of IDU reporting the use of condom at last sexual intercourse with occasional partner*	Behavioural surveillance CEEISCAT	2008-09	78.80
Prevalence of consistent condom use during sex with stable partner (last 6 months)	Behavioural surveillance CEEISCAT	2008-09	29.20
Prevalence of consistent condom use during sex with occasional partner (last 6 months)	Behavioural surveillance CEEISCAT	2008-09	66.90
UNGASS 21. Percentage of IDU who accept shared needles (last 6 months)*	Behavioural surveillance CEEISCAT	2008-09	19.40
UNGASS 21. Percentage of IDU who exchange indirect injecting material (last 6 months)*	Behavioural surveillance CEEISCAT	2008-09	54.00
Young People			
UNGASS 13. Percentage of young people aged 15-24 who correctly identify ways of preventing the sexual transmission of HIV*	ESHS	2003	10.00
UNGASS 15. Percentage of young people aged 15-24 who had their first sexual intercourse before the age of 15	ESHS	2003	4.30
Percentage of young people aged <35 sexually active who report using a condom during last sexual intercourse recruited in CJAS and ASSIR (last 12 months)	HIV prevalence monitoring by <35 years old sentinel population (CT/NG-ASSIR/CJAS project)	2008	53.70
Percentage of young people aged <35 sexually active who report using a condom during last sexual intercourse recruited in jails (last 12 months)	HIV prevalence monitoring by <35 years old sentinel population (CT/NG-Jail Project)	2009	25.90
Percentage of young people aged <35 who have abused of alcohol or illegal drugs recruited in CJAS and ASSIR	CT/NG-ASSIR/CJAS project	2008	Alcohol: 26.50 Illegal drugs: 60.30
Percentage of young people aged <35 who have abused of alcohol or illegal drugs recruited in jails	CT/NG-Jail Project	2009	Alcohol: 49.20 Illegal drugs: 48.90

* UNGASS indicator adaptation.

5. Sexually Transmitted infections (STI).			
Indicator	Source	Last data available	Figure
General population			
Syphilis incidence rate (per 100,000 inhabitants) per year†	Register of individualised MDD	2008	4.60
Gonococcus Syphilis incidence rate (per 100, inhabitants) per year †	Register of individualised MDD	2008	4.20
LGV incidence rate (per 100,000 inhabitants) per year†	Register of individualised MDD	2008	0.50
Congenital syphilis incidence rate (per 100,000 inhabitants) per year†	Register of individualised MDD	2008	0.00
Genital Chlamydia incidence rate (per 100,000 inhabitants) per year‡	Register of MDD	2008	4.80
Condilomes acuminats incidence rate (per 100,000 inhabitants) per year‡	Register of MDD	2008	5.00
Tricomones incidence rate (per 100,000 inhabitants) per year‡	Register of MDD	2008	2.10
Ophthalmia neonatal incidence rate (per 100,000 inhabitants) per year‡	Register of MDD	2008	1.30
Genital herpes incidence rate (per 100,000 inhabitants) per year‡	Register of MDD	2008	6.70
Other numerical declaration STI (per 100,000 inhabitants) per year‡	Register of MDD, SNMC	2008	83.60
STI prevalence of STI in sexually active women aged 18-70 (some time in life)	Afrodita Study [3]	2009	6.40
MSM			
STI prevalence (last 12 months)	Behavioural surveillance CEEISCAT SIALON	2008	15.00
FSW			
Chlamydia Prevalence	Behavioural surveillance CEEISCAT	2007	8.80
Gonococcus Prevalence	Behavioural surveillance CEEISCAT	2007	1.00
IDU			
Chlamydia Prevalence	Behavioural surveillance CEEISCAT	2008-09	2.30
Gonococcus Prevalence	Behavioural surveillance CEEISCAT	2008-09	0.70
Young people			
Chlamydia Prevalence in young people aged <35 recruited in CJAS or ASSIR	CT/NG-ASSIR/CJAS project	2008	4.00
Chlamydia Prevalence in young people aged <35 recruited in jails	CT/NG- jails Projecte	2009	5.40
Gonococcus Prevalence in young people aged <35 recruited in CJAS or ASSIR	CT/NG-ASSIR/CJAS project	2008	0.20
Gonococcus Prevalence in young people aged <35 recruited in jails	CT/NG- jails Projecte	2009	0.20

† Available disaggregate by sex and age inside the document; / ‡ Available disaggregate by health region inside the document.

6. Other Sexual and Reproductive Health (SHR) Indicators.			
Indicator	Source	Last data available	Figure
Contraceptive prevalence in sexually active women aged 18-70 who have used some method (some time in their life)	Afrodita Study	2009	87.40
Percentage of women who have used some contraceptive method by regular method (some time in their life)	Afrodita Study	2009	Oral: 61.80 IUD: 16.10 Condom: 6.00 Female sterilisation: 6.60 Other: 7.00
Age-specific fertility rate (births per 1,000 women by age group)	Statistical Institute of Catalonia (Idescat, according to the Catalan acronym) [4]	2008	15-19: 12.90 20-24: 44.20 25-29: 73.30 30-34: 102.40 35-39: 64.60 40-44: 12.40 45-49: 0.80
Percentage of teenage pregnancy (aged <19)	Reproductive Health Observatory [5]	2007	4.35
Percentage of repeat use of emergency contraception (EC) (from total users in 2004-2008 period)	Maternal and child health Program (Generalitat de Catalunya)†	2008	22.20
Age-specific IA rate (IA per 1,000 women by age group)	Idescat	2008	15-19: 8.83 20-24: 15.44 25-29: 11.78 30-34: 7.83 35-39: 5.40 40-44: 2.10 45-49: 0.18
Total abortion rate	Idescat	2008	0.26
Percentage of caesarean	Basic core of data from acute hospitals (CMBD-HA)	2008	21.30
Percentage of women who have had a pap test (some time in their life)	Afrodita Study	2009	89.20
Percentage of FSW who have had violence sex (some time in their life)	Behavioural surveillance-CEEISCAT	2007	15.90

† Maternal and child health takes part of DS strategy in Catalonia. Public health general section has an EC deliver data registry in Catalonia.

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