

## **Public dataset description.**

### *Amsterdam Cohort Studies among homosexual men and drug users*

#### *Introduction*

The Amsterdam cohort study (ACS) on human immunodeficiency virus (HIV) infection and AIDS among homosexual men started in 1984 and was expanded to include drug users in 1985. Thus far, about 2100 homosexual men and 1630 (injecting) drug users have been included of whom approximately 700 homosexual men and 550 drug users are still in active follow-up. Every 3-6 months participants complete a standardized questionnaire to obtain medical, epidemiological and social scientific information and undergo a medical examination. In addition, they have blood drawn for virological and immunological tests and storage.

*A limited data set of the ACS that is generally accessible for researchers and students.*

The ACS data are very suitable for universities and research institutes to teach epidemiological, biomedical and social scientific students how to analyze longitudinal data sets. The concurrence of epidemiological and biomedical data also enables researchers from various disciplines to practice statistical techniques like event history (Survival), multilevel and repeated measurement analysis.

For this purpose an anonymous data set that includes a limited amount of epidemiological, social-scientific demographic, clinical and biomedical information obtained from the participants of the ACS over the past 20 years of follow-up is available.

If the intention is to use the data for other than educational reasons, please mention the source of the data set and contact the data-administrator in advance ([gevisser@ggd.amsterdam.nl](mailto:gevisser@ggd.amsterdam.nl)).

For more details and backgrounds on the Amsterdam Cohort Studies data, please refer to the latest annual report on <http://www.amsterdamcohortstudies.org/>

## **A Clinical data HIV seroconverters**

### **tblPatient**

| <i>Variable</i> | <i>Description</i>                                  | <i>Range</i>  |
|-----------------|---|---------------|
| Patient         | identifier for Amsterdam Cohort Studies participant | Random number |
| Gender          | Gender  | 1=male        |

|                    |  |  |
|--------------------|--|--|
|                    |  | 2=female   |
| Group              | exposure Group   | 1=sex between men<br>2=idu                               |
| Ethnicity (Ethnic) | Ethnicity of patient   | 10=White<br>22=Black Caribbean<br>90=Other<br>99=Unknown |
| Serocon_det        | how was seroconversion date determined?                                | 1=midpoint between last neg/first pos test<br>4=other    |
| Seroneg_det        | how was negative date determined?                                      | 1=information verified by laboratory or clinic           |
| Art_init           | has ART been initiated   | 0=no<br>1=yes  |
| Aids_diag          | has AIDS been diagnosed  | 0=no<br>1=yes  |
| Birth_date         | date of birth_anonymous (changed to 1st day of month)                  | dd-mm-yyyy   |
| Cohort_date        | date of enrolment into cohort_anonymous (changed to 1st day of month)  | dd-mm-yyyy   |
| Serocon_date       | date of seroconversion_anonymous (changed to 1st day of month)         | dd-mm-yyyy   |
| Art_init_date      | date ART initiated_anonymous (changed to 1st day of month)             | dd-mm-yyyy   |
| Aids_diag_date     | date of initial AIDS diagnosis_anonymous (changed to 1st day of month) | dd-mm-yyyy   |

#### **tbILastFUP**

|                 |   |               |
|-----------------|---|---------------|
| Patient         | identifier for Amsterdam Cohort Studies participant               | Random number |
| Death           | has the subject died?   | 0=no<br>1=yes |
| Cause_death_1   | cause of death  | (appendix B)  |
| Cause_death_2   | cause of death  | (appendix B)  |
| Cause_death_3   | cause of death  | (appendix B)  |
| Last clin_date  | date of last clinic visit_anonymous (changed to 1st day of month) | dd-mm-yyyy    |
| Last alive_date | date last alive_anonymous (changed to 1st day of month)           | dd-mm-yyyy    |
| Death_date      | date of death_anonymous (changed to 1st day of month)             | dd-mm-yyyy    |

#### **tbICD4**

|           |  |                               |
|-----------|--|-------------------------------|
| Patient   | identifier for Amsterdam Cohort Studies participant                | Random number                 |
| CD4_date  | date of CD4 count_anonymous (changed to 1st day of month)          | dd-mm-yyyy                    |
| CD4_count | absolute CD4 count_anonymous (changed to groups of fifty, upwards) | 9999 (cells/mm <sup>3</sup> ) |

### tbIRNA

|            |   |  |
|------------|---|--|
| Patient    | identifier for Amsterdam Cohort Studies participant                 | Random number  |
| RNA_sign   | sign of RNA, indicates if result is within test range               | -1 (<) Result below test range<br>0 (=) Result within test range<br>1 (>) Result above test range  |
| RNA_limit  | Lower limit of HIV-RNA Assay  | 99999999 (copies/mm <sup>3</sup> )   |
| RNA_assay  | HIV-RNA Assay used  | 19=Any Roche (unspecified)<br>29=Any NASBA (unspecified)<br>39=Any Chiron (unspecified)<br>67=Cobas (type unknown)<br>69=Cobas (unspecified)<br>90=Other<br>99=Unknown |
| RNA_date   | date of HIV RNA measurement_anonymous (changed to 1st day of month) | dd-mm-yyyy   |
| RNA_copies | RNA copies_anonymous (changed to 10log scale with 1 decimal)        | 99999999 (10 log copies/mm <sup>3</sup> )  |

### tbIAntibody

|             |   |  |
|-------------|---|--|
| Patient     | identifier for Amsterdam Cohort Studies participant | Random number  |
| Viral_test  | viral test (hiv-test only)                          | HIV-1 =HIV-1 test                                      |
| Test_result | test result   | 0 = negative<br>1 = positive<br>9 = unknown/borderline |
| Test_date   | date of test (changed to 1st day of month)          | dd-mm-yyyy   |

## Appendix B – Coding for Causes of Death

- 01 AIDS (unspecified)
  - 01.1 Infection
  - 01.2 Malignancy
  - 02.1 Bacterial
  - 02.2 Others
  - 02.3 Unknown aetiology

- 02.3.1** Unknown with sepsis
- 08** MI or other ischemic heart disease
- 13** Chronic obstructive lung disease
- 14** Liver failure (other than 03, 03.1, 03.2)
- 16** Accident or other violent death (not suicide)
- 17** Suicide
- 19** Substance abuse (unspecified)
- If the cause of death can't be specifically classified, general classification can be used:**
- 23** CNS disease (other causes)
- 25** Respiratory disease (other causes)
- If the cause of death is unclassifiable, use:**
- 92** Unknown

## Appendix C – Coding for AIDS Events

- BCNE** Bacterial pneumonia, recurrent (>2 episodes within 1 year)
- DEM** AIDS dementia complex
- CANO** Oesophageal Candidiasis
- CRCO** Cryptococcosis, extrapulm.
- CRSP** Cryptosporidiosis (duration > 1 month)
- CMVR** Cytomegalovirus (CMV) chorioretinitis
- CMVO** CMV - other location
- HERP** Herpes simplex virus ulcers (duration > 1 month) or pneumonitis/esophagitis/bronchitis
- WAST** HIV Wasting Syndrome
- MCDI** Microsporidiosis diarrhoea (dur. > 1 month)
- MC** Mycobact. avium complex (MAC) or Kana, extrapulm.
- MCP** Mycobact. tuberculosis pulm.
- MCX** Mycobact. tuberculosis extrapulm.
- MCPO** Mycobact. pulm., other
- MCO** Mycobact., other (unspecified)
- PCP** Pneumocystis carinii pneumonia (PCP)
- LEU** Progressive multifocal leucoencephalopathy
- TOX** Toxoplasmosis, brain
- KS** Kaposi Sarcoma
- NHGB** Non-Hodgkin Lymphoma - Burkitt (Classical or Atypical)

## B Social Behaviour data among drugusers

This dataset includes data from the start of the ACS (4<sup>th</sup> December 1985) until 21<sup>st</sup> November 2005. In total 1,206 ever-injectors were included (in total 17,945 visits). Participants that started injecting drug use during follow up are included from the moment they reported to start injecting in the period since the previous visit.

### tblDruguse

| <i>Variable</i> | <i>Description</i>                                       | <i>Range</i>  |
|-----------------|--|---------------|
| Patient         | Anonymous identifier for ever injectors in the Amsterdam | Random number |

|                   | Cohort Studies   |   |
|-------------------|--|---|
| Visitdate         | date of visit to ACS   |   |
| Visitnumber       | number of visit to ACS   |   |
| ExtraVisit        | extra visit belonging to that number of visit  | 0=regular visit<br>>1=extra visit   |
| InterviewAge      | age at visit?  |   |
| Gender            | sex/gender   | 1=male<br>2=female<br>3=transsexual   |
| HCVantibodies     | anti HCV antibodies  | 1=positive<br>2=negative<br>3=missing   |
| HIVantibodies     | anti HIV antibodies  | 0=negative<br>1=positive  |
| InjectionStart    | age at first injection   |   |
| InjectionDuration | duration of injecting drug use in years  |   |
| Injectionstatus   | IDU status in past 6 months at first visit or since previous visit at future visits  | 1=yes<br>2=no<br>9=unknown  |
| Injectionfreq     | frequency of current injecting drug use  | 0=no injection<br>1=more times daily<br>2=once daily<br>3=2-6 days/week<br>4=once weekly<br>5=2-3 days/month<br>6=1 day/month<br>7=less than 1 day/month<br>9=unknown |
| InjectionDrug     | drug of principal choice in the past 6 months  | 0=no injection<br>1=heroin<br>2=cocaine<br>3=cocaine and heroine<br>4=amphetamine<br>5=methadone<br>6=unknown drug  |
| SharingEver       | sharing syringes: ever, at entry   | 1=yes<br>2=no<br>9=unknown  |
| SharingCurrent    | sharing syringes: current (in the past 6 months)   | 0=never<br>1-998=number of syringes shared<br>999=unknown   |
| SharingFreq       | variable 19 (v81) divided by time since previous visit or if time between visits > 6 months, variable 19 (v81) divided by 6 months (xx needles shared/month) |   |

## C Social Behaviour data among homosexual men (Not available yet)

Based on the homo data of the Amsterdam Cohort Studies data.

### tblHomo

| <i>Variable</i>           | <i>Description</i>  | <i>Range</i>   |
|---------------------------|---|--|
| CohortID                  | identifier for Amsterdam Cohort Studies participant                                       | NOT PUBLIC   |
| Patient                   | Anonymous identifier for Amsterdam Cohort Studies participant                             | Random number  |
| Datbez                    | date of visit to ACS  | NOT PUBLIC   |
| Visitdate                 | date of visit to ACS  |  |
| Steady                    | Did you have a steady relationship with a boy/man in the last 6 months?                   | 0=no<br>1=yes  |
| Steady_nr                 | With how many men did you have a steady relationship with a boy/man in the last 6 months? | 0-100  |
| Steady_fucked             | Have you had insertive anal sex with your steady partner?                                 | 0=no<br>1=yes  |
| Steady_fucked_condom      | How often did you use a condom when having insertive anal sex with your steady partner?   | 1=never<br>2=hardly ever<br>3=sometimes<br>4=most of the times<br>5=always<br>6=not applicable |
| Steady_been_fucked        | Have you had receptive anal sex with your steady partner?                                 | 0=no<br>1=yes  |
| Steady_been_fucked_condom | How often did you use a condom when having receptive anal sex with your steady partner?   | 1=never<br>2=hardly ever<br>3=sometimes<br>4=most of the times<br>5=always<br>6=not applicable |
| Casual                    | Did you have sex with one or more casual male partners in the last six months?            | 0=no<br>1=yes  |
| Casual_nr                 | With how many casual partners did you have sex in the last six months?                    | 0-999  |
| Casual_fucked             | Have you fucked casual  | 0=no   |

|                                |   |  |
|--------------------------------|---|--|
|                                | partners?   | 1=yes  |
| Casual_fucked_nr               | How many casual partners have you fucked?                             | 0-999  |
| Casual_fucked_condom           | How often did you use a condom when fucking a regular partner?        | 1=never<br>2=hardly ever<br>3=sometimes<br>4=most of the times<br>5=always |
| Casual_been_fucked             | Have you been fucked by casual partners?                              | 0=no<br>1=yes  |
| Casual_been_fucked_nr          | By how many casual partners have you been fucked?                     | 0-999  |
| Casual_been_fucked_condom      | How often did you use a condom when being fucked by a casual partner? | 1=never<br>2=hardly ever<br>3=sometimes<br>4=most of the times<br>5=always |
| Result_last_hivtest_selfreport | What is the result of your last hiv-test?(self reported)              | 1=seronegative<br>2=seropositive<br>3=unknown                              |
| Result_last_hivtest_confirmed  | Confirmed   |  |