**Number of cases in the Northern Sweden Health and Disease Study, NSHDS**

**The information is based on available registers with varying follow-up time**

In the planning of studies in the biobank, it is necessary to know approximately how many samples there are to study. As a rule, the number of available cases for a given disease is the limiting factor. Below you will find tables for some diseases and we have chosen to present information that can be produced automatically and easily. More data can be obtained for specific issues in connection with an application to the Biobank Research Unit, the Swedish Ethical Review Authority or a financier.

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**The summaries below concerning different cancer types include only invasive tumors**

# Breast cancer, women

|  |
| --- |
| **Samples and subjects** |
|   | Total | With prospective sample | With at least 2 prospective samples | With only retrospective samples |
| Number of samples | 7554 |  |  |  |
| Number of subjects | 3222 | 2589 | 1527  |  633 |
| Expected at update of the register autumn 2020 |  | 2930 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | With prospective sample | With only retrospective samples |
| Number of subjects | 1988 | 430 |

|  |
| --- |
| **Prospective plasma samples by year of sampling** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 158 | 58 | 47 |
| 1990-1999 | 3428 | 2543 | 2650 |
| 2000-2009 | 1832 | 1767 | 1760 |
| 2010- | 214 | 214 | 214 |
| Total | 5632 | 4582 | 4671 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
| < 40 | 23 |
| 40-49 | 307 |
| 50-59 | 731 |
| 60-69 | 949 |
| 70-79 | 455 |
| 80- | 124 |
| Total | 2589 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
| < 1 | 155 |
| 1-2 | 107 |
| 2-3 | 119 |
| 3-5 | 241 |
| 5-10 | 556 |
| 10-20 | 1051 |
| >20 | 360 |
| Total | 2589 |

# Prostate cancer

|  |
| --- |
| **Samples and subjects** |
|   | Total | With prospective sample | With at least 2 prospective samples | With only retrospective samples |
| Number of samples | 4974 |  |  |  |
| Number of subjects | 3344 | 3222 | 1171  |  122 |
| Expected at update of the register autumn 2020 |  | 3847 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | With prospective sample | With only retrospective samples |
| Number of subjects | 2432 | 36 |

|  |
| --- |
| **Prospective plasma samples by year of sampling** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 244 | 53 | 43 |
| 1990-1999 | 2725 | 1502 | 1323 |
| 2000-2009 | 1390 | 1267 | 1072 |
| 2010- | 254 | 253 | 253 |
| Total | 4613 | 3075 | 2691 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
| < 40 | 0 |
| 40-49 | 26 |
| 50-59 | 418 |
| 60-69 | 1611 |
| 70-79 | 1032 |
| 80- | 135 |
| Total | 3222 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
| < 1 | 148 |
| 1-2 | 105 |
| 2-3 | 161 |
| 3-5 | 339 |
| 5-10 | 1046 |
| 10-20 | 1209 |
| >20 | 214 |
| Total | 3222 |

# Pancreas cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 893 |  |  |  |
| Number of subjects Men Women | 443 177 266  | 442176266  | 57 168  | 1 0  |
| Expected at update of the register autumn 2020 |  | 523 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 320127193 | 0 0 0 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 8 | 1 | 2 |
| 1990-1999 | 151 | 80 | 93 |
| 2000-2009 | 70 | 60 | 67 |
| 2010- | 15 | 15 | 14 |
| Total | 244 | 156 | 177 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 13 | 2 | 4 |
| 1990-1999 | 436 | 358 | 385 |
| 2000-2009 | 187 | 177 | 180 |
| 2010- | 9 | 9 | 9 |
| Total | 645 | 546 | 578 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 2 | 1 |
| 40-49 | 6 | 10 |
| 50-59 | 22 | 37 |
| 60-69 | 86 | 103 |
| 70-79 | 53 | 89 |
| 80- | 7 | 26 |
| Total | 176 | 266 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 4 | 7 |
| 1-2 | 6 | 6 |
| 2-3 | 4 | 12 |
| 3-5 | 10 | 15 |
| 5-10 | 35 | 59 |
| 10-20 | 89 | 116 |
| >20 | 28 | 51 |
| Total | 176 | 266 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Lung cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1728 |  |  |  |
| Number of subjects Men Women | 941 404 537 | 922396526  | 427103324 |  19811  |
| Expected at update of the register autumn 2020 |  | 1084 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 675305370 | 94 5 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 37 | 5 | 6 |
| 1990-1999 | 316 | 167 | 211 |
| 2000-2009 | 134 | 89 | 112 |
| 2010- | 18 | 18 | 18 |
| Total | 505 | 279 | 347 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 29 | 5 | 8 |
| 1990-1999 | 791 | 641 | 702 |
| 2000-2009 | 337 | 296 | 323 |
| 2010- | 17 | 16 | 17 |
| Total | 1174 | 958 | 1050 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 0 | 0 |
| 40-49 | 9 | 8 |
| 50-59 | 40 | 82 |
| 60-69 | 179 | 193 |
| 70-79 | 145 | 199 |
| 80- | 23 | 44 |
| Total | 396 | 526 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 13 | 20 |
| 1-2 | 18 | 37 |
| 2-3 | 21 | 31 |
| 3-5 | 44 | 66 |
| 5-10 | 100 | 157 |
| 10-20 | 170 | 206 |
| >20 | 30 | 9 |
| Total | 396 | 526 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Colorectal cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 4393 |  |  |  |
| Number of subjects Men Women | 2204 961 1243 | 20078821125  | 998255743 |  19779118  |
| Expected at update of the register autumn 2020 |  | 2004 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 1507663844 | 8832 56 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 82 | 13 | 12 |
| 1990-1999 | 725 | 240 | 345 |
| 2000-2009 | 316 | 227 | 272 |
| 2010- | 49 | 46 | 49 |
| Total | 1172 | 526 | 678 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 62 | 12 | 13 |
| 1990-1999 | 1756 | 1285 | 1447 |
| 2000-2009 | 798 | 739 | 778 |
| 2010- | 51 | 51 | 51 |
| Total | 2667 | 2087 | 2289 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 1 | 2 |
| 40-49 | 35 | 40 |
| 50-59 | 135 | 164 |
| 60-69 | 342 | 367 |
| 70-79 | 294 | 409 |
| 80- | 75 | 143 |
| Total | 882 | 1125 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 38 | 79 |
| 1-2 | 35 | 87 |
| 2-3 | 29 | 59 |
| 3-5 | 81 | 153 |
| 5-10 | 256 | 305 |
| 10-20 | 347 | 409 |
| >20 | 96 | 33 |
| Total | 882 | 1125 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Cervical cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 555 |  |  |  |
| Number of subjects |  252 | 104 |  46 |  148  |
| Expected at update of the register autumn 2020 |  | 116 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects | 65 |  105 |

|  |
| --- |
| **Prospective plasma samples by year of sampling** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 9 | 5 | 6 |
| 1990-1999 | 115 | 86 | 104 |
| 2000-2009 | 61 | 60 | 60 |
| 2010- | 6 | 6 | 6 |
| Total | 191 | 157 | 176 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
| < 40 | 5 |
| 40-49 | 26 |
| 50-59 | 24 |
| 60-69 | 22 |
| 70-79 | 20 |
| 80- | 7 |
| Total | 104 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
| < 1 | 9 |
| 1-2 | 6 |
| 2-3 | 6 |
| 3-5 | 18 |
| 5-10 | 22 |
| 10-20 | 34 |
| >20 | 9 |
| Total | 104 |

# Corpus cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1881 |  |  |  |
| Number of subjects |  727 | 582 |  363 |  145  |
| Expected at update of the register autumn 2020 |  | 657 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects | 440 |  75 |

|  |
| --- |
| **Prospective plasma samples by year of sampling** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 43 | 13 | 11 |
| 1990-1999 | 886 | 719 | 778 |
| 2000-2009 | 390 | 378 | 382 |
| 2010- | 32 | 31 | 31 |
| Total | 1351 | 1141 | 1202 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
| < 40 | 1 |
| 40-49 | 13 |
| 50-59 | 148 |
| 60-69 | 235 |
| 70-79 | 142 |
| 80- | 43 |
| Total | 582 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
| < 1 | 35 |
| 1-2 | 39 |
| 2-3 | 25 |
| 3-5 | 54 |
| 5-10 | 127 |
| 10-20 | 233 |
| >20 | 69 |
| Total | 582 |

# Ovarian cancer

Borderline is not included in these tables and figures.

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 861 |  |  |  |
| Number of subjects |  409 | 297 |  153 |  112  |
| Expected at update of the register autumn 2020 |  | 330 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects | 241 |  54 |

|  |
| --- |
| **Prospective plasma samples by year of sampling** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 27 | 6 | 4 |
| 1990-1999 | 376 | 250 | 278 |
| 2000-2009 | 168 | 147 | 161 |
| 2010- | 19 | 19 | 19 |
| Total | 590 | 422 | 462 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
| < 40 | 4 |
| 40-49 | 29 |
| 50-59 | 90 |
| 60-69 | 99 |
| 70-79 | 64 |
| 80- | 11 |
| Total | 297 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
| < 1 | 24 |
| 1-2 | 27 |
| 2-3 | 19 |
| 3-5 | 21 |
| 5-10 | 77 |
| 10-20 | 102 |
| >20 | 27 |
| Total | 297 |

# Kidney cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 798 |  |  |  |
| Number of subjects Men Women | 418 228 190 | 365202163  | 16561104 |  532627  |
| Expected at update of the register autumn 2020 |  | 420 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 164144120 |  29 11 18 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 17 | 6 | 6 |
| 1990-1999 | 150 | 87 | 102 |
| 2000-2009 | 90 | 79 | 83 |
| 2010- | 15 | 15 | 15 |
| Total | 272 | 187 | 206 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 12 | 5 | 4 |
| 1990-1999 | 247 | 203 | 226 |
| 2000-2009 | 107 | 103 | 105 |
| 2010- | 6 | 6 | 6 |
| Total | 372 | 317 | 341 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40  |  1 | 0 |
| 40-49 | 9 | 2 |
| 50-59 | 40 | 26 |
| 60-69 | 86 | 68 |
| 70-79 | 61 | 53 |
| 80- | 5 | 14 |
| Total | 202 | 163 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | **Men** | **Women** |
| < 1 | 5 | 17 |
| 1-2 | 14 |  10 |
| 2-3 | 9 | 14 |
| 3-5 | 22 | 19 |
| 5-10 | 65 | 53 |
| 10-20 | 71 | 46 |
| >20 | 16 | 4 |
| Total | 202 | 163 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Bladder cancer

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1343 |  |  |  |
| Number of subjects Men Women | 817 584 233 | 719517202  | 254137117 |  986731  |
| Expected at update of the register autumn 2020 |  | 883 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 480349131 |  53 39 14 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 44 | 13 | 9 |
| 1990-1999 | 438 | 222 | 273 |
| 2000-2009 | 174 | 156 | 160 |
| 2010- | 20 | 20 | 20 |
| Total | 676 | 411 | 462 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 8 | 3 | 2 |
| 1990-1999 | 315 | 252 | 268 |
| 2000-2009 | 123 | 122 | 121 |
| 2010- | 7 | 7 | 7 |
| Total | 453 | 384 | 398 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | **Men** | **Women** |
| < 40 |  2 | 0 |
| 40-49 | 17 | 4 |
| 50-59 | 58 | 25 |
| 60-69 | 183 | 65 |
| 70-79 | 204 | 73 |
| 80- | 53 | 35 |
| Total | 517 | 202 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | **Men** | **Women** |
| < 1 | 19 | 8 |
| 1-2 | 20 | 16 |
| 2-3 | 13 | 9 |
| 3-5 | 40 | 25 |
| 5-10 | 139 | 53 |
| 10-20 | 230 | 78 |
| >20 | 56 | 13 |
| Total | 517 | 202 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Malignant melanoma

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1468 |  |  |  |
| Number of subjects Men Women | 755 340 415 | 568273295  | 26794173 |  18767120  |
| Expected at update of the register autumn 2020 |  | 698 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 306153153 |  60 21 39 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 18 | 7 | 8 |
| 1990-1999 | 214 | 171 | 163 |
| 2000-2009 | 127 | 124 | 23 |
| 2010- | 21 | 21 | 21 |
| Total | 380 | 323 | 315 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 19 | 12 | 12 |
| 1990-1999 | 347 | 313 | 319 |
| 2000-2009 | 225 | 224 | 222 |
| 2010- | 43 | 43 | 43 |
| Total | 634 | 592 | 596 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 |  6 | 6 |
| 40-49 | 33 | 51 |
| 50-59 | 64 | 71 |
| 60-69 | 100 | 93 |
| 70-79 | 53 | 58 |
| 80- | 17 | 16 |
| Total | 273 | 295 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 16 | 27 |
| 1-2 | 19 | 26 |
| 2-3 | 11 | 20 |
| 3-5 | 35 | 38 |
| 5-10 | 86 | 98 |
| 10-20 | 89 | 78 |
| >20 | 17 | 8 |
| Total | 273 | 295 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Brain tumours

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1382 |  |  |  |
| Number of subjects Men Women | 691 267 424 | 490194296  | 24155186 |  20173128  |
| Expected at update of the register autumn 2020 |  | 540 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 316132184 |  89 36 53 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 22 | 8 | 11 |
| 1990-1999 | 151 | 103 | 125 |
| 2000-2009 | 72 | 61 | 64 |
| 2010- | 18 | 18 | 18 |
| Total | 263 | 190 | 218 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 19 | 8 | 7 |
| 1990-1999 | 411 | 349 | 389 |
| 2000-2009 | 226 | 221 | 224 |
| 2010- | 20 | 20 | 20 |
| Total | 676 | 598 | 640 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 |  6 | 2 |
| 40-49 | 26 | 37 |
| 50-59 | 47 | 83 |
| 60-69 | 66 | 109 |
| 70-79 | 45 | 60 |
| 80- | 4 | 5 |
| Total | 194 | 296 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 10 | 32 |
| 1-2 | 26 | 31 |
| 2-3 | 14 | 32 |
| 3-5 | 30 | 47 |
| 5-10 | 53 | 102 |
| 10-20 | 54 | 50 |
| >20 | 7 | 2 |
| Total | 194 | 296 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Hematological malignancies

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 3190 |  |  |  |
| Number of subjects Men Women | 1708 897 811 | 1474774700  | 675250425 |  234123111  |
| Expected at update of the register autumn 2020 |  | 1723 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 1067559508 |  151 77 74 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 47 | 15 | 15 |
| 1990-1999 | 643 | 466 | 497 |
| 2000-2009 | 322 | 287 | 303 |
| 2010- | 56 | 55 | 56 |
| Total | 1068 | 823 | 871 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 38 | 18 | 18 |
| 1990-1999 | 1019 | 874 | 934 |
| 2000-2009 | 495 | 466 | 484 |
| 2010- | 44 | 43 | 44 |
| Total | 1596 | 1401 | 1480 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | **Men** | **Women** |
| < 40  |  5 | 4 |
| 40-49 | 45 | 25 |
| 50-59 | 149 | 127 |
| 60-69 | 291 | 221 |
| 70-79 | 234 | 235 |
| 80- | 50 | 88 |
| Total | 774 | 700 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | **Men** | **Women** |
| < 1 | 42 | 50 |
| 1-2 | 31 | 54 |
| 2-3 | 43 | 52 |
| 3-5 | 109 | 84 |
| 5-10 | 222 | 207 |
| 10-20 | 272 | 232 |
| >20 | 55 | 21 |
| Total | 774 | 700 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# All types of cancer

The first malign diagnosis is chosen in the tables below.

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 34094 |  |  |  |
| Number of subjects Men Women | 1756779149653 | 1489570907805 | 701523144701 | 26728241848 |
| Expected at update of the register autumn 2020 |  | 17775 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 1047449895485 | 1365341 1024 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 568 | 147 | 135 |
| 1990-1999 | 5793 | 3375 | 3466 |
| 2000-2009 | 2896 | 2570 | 2475 |
| 2010- | 535 | 529 | 533 |
| Total | 9792 | 6621 | 6609 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 |  478 | 166 | 153 |
| 1990-1999 | 10992 | 8794 | 9380 |
| 2000-2009 | 5350 | 5095 | 5191 |
| 2010- | 512 | 510 | 511 |
| Total | 17332 | 14565 | 15235 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 45 | 52 |
| 40-49 | 297 | 632 |
| 50-59 | 1151 | 1743 |
| 60-69 | 3142 | 2739 |
| 70-79 | 2095 | 2019 |
| 80- | 360 | 620 |
| Total | 7090 | 7805 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 338 | 836 |
| 1-2 | 340 | 686 |
| 2-3 | 365 | 579 |
| 3-5 | 805 | 1054 |
| 5-10 | 2208 | 2282 |
| 10-20 | 2544 | 2170 |
| >20 | 490 | 198 |
| Total | 7090 | 7805 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Myocardial infarction

Before 2010, only those who were younger than 75 years were included, while from 2010 all age groups are included.

|  |
| --- |
| **Samples and subjects** |
|   | Total | With prospective sample | With at least 2 prospective samples | With only retrospective samples |
| Number of samples | 12319 |  |  |  |
| Number of subjects Men Women | 6943  4549 2394 | 3944 2211  | 1153 1387  | 788 605 183  |
| Expected at update of the register autumn 2020 |  | 7055 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | With prospective sample | With only retrospective samples |
| Number of subjects Men Women | 459828821716 | 591434157 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Men** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 311 | 83 | 65 |
| 1990-1999 | 3261 | 1738 | 1956 |
| 2000-2009 | 1467 | 1368 | 1326 |
| 2010- | 254 | 254 | 254 |
| Total | 5293 | 3443 | 3601 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 128 | 44 | 38 |
| 1990-1999 | 3552 | 2889 | 3068 |
| 2000-2009 | 1357 | 1312 | 1328 |
| 2010- | 71 | 70 | 71 |
| Total | 5108 | 4324 | 4505 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 6 | 5 |
| 40-49 | 235 | 63 |
| 50-59 | 965 | 318 |
| 60-69 | 1613 | 617 |
| 70-79 | 913 | 774 |
| 80- | 212 | 434 |
| Total | 3944 | 2211 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 210 | 134 |
| 1-2 | 232 | 134 |
| 2-3 | 252 | 109 |
| 3-5 | 539 | 252 |
| 5-10 | 1210 | 565 |
| 10-20 | 1227 | 939 |
| >20 | 274 | 78 |
| Total | 3944 | 2211 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Stroke

Before 2010, only those who were younger than 75 years were included, while from 2010 all age groups are included. In addition, transient cerebral ischemic attack (TIA) was not included in the register until 2010.

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 14869 |  |  |  |
| Number of subjects Men Women | 7798 3817 3981 | 701234133599 | 32009642236 |  786 404382  |
| Expected at update of the register autumn 2020 |  | 8312 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 504723982649 | 562275 287 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 267 | 67 | 62 |
| 1990-1999 | 2801 | 1652 | 1784 |
| 2000-2009 | 1231 | 1157 | 1122 |
| 2010- | 216 | 216 | 216 |
| Total | 4515 | 3092 | 3184 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 213 | 77 | 62 |
| 1990-1999 | 5670 | 4794 | 5099 |
| 2000-2009 | 2301 | 2235 | 2260 |
| 2010- | 142 | 142 | 142 |
| Total | 8326 | 7248 | 7563 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 14 | 15 |
| 40-49 | 129 | 138 |
| 50-59 | 563 | 403 |
| 60-69 | 1319 | 992 |
| 70-79 | 1089 | 1259 |
| 80- | 299 | 792 |
| Total | 3413 | 3599 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 137 | 191 |
| 1-2 | 150 | 217 |
| 2-3 | 148 | 191 |
| 3-5 | 336 | 330 |
| 5-10 | 959 | 881 |
| 10-20 | 1325 | 1637 |
| >20 | 358 | 152 |
| Total | 3413 | 3599 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Osteoporotic fracture (hip+radius)

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 13287 |  |  |  |
| Number of subjects Men Women | 6048 1494 4554 | 541512364179  | 29493002649 |  633258375  |
| Expected at update of the register autumn 2020 |  | 6300 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 41349073227 | 447133 314 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 89 | 35 | 32 |
| 1990-1999 | 983 | 570 | 619 |
| 2000-2009 | 427 | 396 | 388 |
| 2010- | 84 | 84 | 84 |
| Total | 1583 | 1085 | 1123 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 207 | 100 | 89 |
| 1990-1999 | 6603 | 5626 | 5943 |
| 2000-2009 | 2604 | 2532 | 2547 |
| 2010- | 143 | 141 | 142 |
| Total | 9557 | 8399 | 8721 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 10 | 5 |
| 40-49 | 45 | 42 |
| 50-59 | 229 | 676 |
| 60-69 | 387 | 1217 |
| 70-79 | 364 | 1343 |
| 80- | 201 | 896 |
| Total | 1236 | 4179 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 51 | 289 |
| 1-2 | 54 | 273 |
| 2-3 | 46 | 258 |
| 3-5 | 136 | 461 |
| 5-10 | 284 | 1024 |
| 10-20 | 433 | 1596 |
| >20 | 232 | 278 |
| Total | 1236 | 4179 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Diabetes

The diagnosis is verified on the basis of analyzes of the blood sample that has been submitted closest to the diagnosis, regardless of whether the date of sampling was before or after the discovery of the disease. There are significantly fewer cases after 2006 because the cases verified in DiabNorr after 2006 mostly consist of individuals with participated in the Monica-project.

|  |
| --- |
| **Samples and subjects** |
|   | Total | With prospective sample | With at least 2 prospective samples | With only retrospective samples |
| Number of samples | 6627 |  |  |  |
| Number of subjects Men Women | 3339  1942 1397 | 1201981  | 227576  | 1157 741  416  |
| Expected at update of the register autumn 2020 |  | 5110 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | With prospective sample | With only retrospective samples |
| Number of subjects Men Women | 19341071863 | 1026661365 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Men** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 140 | 20 | 11 |
| 1990-1999 | 1180 | 556 | 444 |
| 2000-2009 | 157 | 131 | 49 |
| 2010- | 3 | 3 | 3 |
| Total | 1480 | 710 | 507 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 85 | 16 | 13 |
| 1990-1999 | 1617 | 1172 | 1145 |
| 2000-2009 | 371 | 351 | 313 |
| 2010- | 1 | 1 | 1 |
| Total | 2074 | 1540 | 1472 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 17 | 8 |
| 40-49 | 153 | 114 |
| 50-59 | 440 | 361 |
| 60-69 | 475 | 399 |
| 70-79 | 106 | 90 |
| 80- | 10 | 9 |
| Total | 1201 | 981 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 76 | 76 |
| 1-2 | 43 | 80 |
| 2-3 | 70 | 56 |
| 3-5 | 166 | 132 |
| 5-10 | 516 | 408 |
| 10-20 | 307 | 212 |
| >20 | 23 | 17 |
| Total | 1201 | 981 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

Alzheimer's disease

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 679 |  |  |  |
| Number of subjects Men Women | 393 103 290 | 386101285  | 17214158 |  725  |
| Expected at update of the register autumn 2020 |  | 1070 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 37796281 | 30 3 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 10 | 3 | 3 |
| 1990-1999 | 100 | 26 | 43 |
| 2000-2009 | 9 | 5 | 7 |
| 2010- | 0 | 0 | 0 |
| Total | 119 | 34 | 53 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 19 | 7 | 7 |
| 1990-1999 | 444 | 298 | 383 |
| 2000-2009 | 73 | 63 | 69 |
| 2010- | 0 | 0 | 0 |
| Total | 536 | 368 | 459 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 0 | 0 |
| 40-49 | 1 | 0 |
| 50-59 | 7 | 15 |
| 60-69 | 45 | 82 |
| 70-79 | 47 | 178 |
| 80- | 1 | 10 |
| Total | 101 | 285 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 2 | 12 |
| 1-2 | 4 | 15 |
| 2-3 | 3 | 22 |
| 3-5 | 9 | 51 |
| 5-10 | 37 | 124 |
| 10-20 | 45 | 61 |
| >20 | 1 | 0 |
| Total | 101 | 285 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

Atrial fibrillation

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 10153 |  |  |  |
| Number of subjects Men Women | 505431081946 | 501630791937 | 22167671449 |  38 299  |
| Expected at update of the register autumn 2020 |  | 7266 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 364221771465 | 63 3 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 222 | 92 | 80 |
| 1990-1999 | 2551 | 1512 | 1556 |
| 2000-2009 | 1069 | 1000 | 963 |
| 2010- | 94 | 94 | 94 |
| Total | 3936 | 2698 | 2693 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 150 | 72 | 61 |
| 1990-1999 | 3708 | 3113 | 3300 |
| 2000-2009 | 1429 | 1385 | 1386 |
| 2010- | 44 | 44 | 44 |
| Total | 5331 | 4614 | 4791 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 15 | 5 |
| 40-49 | 167 | 43 |
| 50-59 | 553 | 234 |
| 60-69 | 1313 | 710 |
| 70-79 | 927 | 788 |
| 80- | 104 | 157 |
| Total | 3079 | 1937 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 142 | 125 |
| 1-2 | 161 | 130 |
| 2-3 | 177 | 126 |
| 3-5 | 341 | 247 |
| 5-10 | 960 | 611 |
| 10-20 | 1147 | 651 |
| >20 | 151 | 47 |
| Total | 3079 | 1937 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

Rheumatoid arthritis

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1855 |  |  |  |
| Number of subjects Men Women | 823228595 | 591175416 | 30648258 |  232 53179  |
| Expected at update of the register autumn 2020 |  | 1105 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 577171406 | 13828 110 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 20 | 8 | 9 |
| 1990-1999 | 143 | 34 | 63 |
| 2000-2009 | 59 | 29 | 43 |
| 2010- | 3 | 3 | 3 |
| Total | 225 | 74 | 118 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 27 | 7 | 7 |
| 1990-1999 | 632 | 209 | 407 |
| 2000-2009 | 231 | 107 | 188 |
| 2010- | 1 | 0 | 1 |
| Total | 891 | 323 | 603 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 5 | 15 |
| 40-49 | 28 | 67 |
| 50-59 | 49 | 125 |
| 60-69 | 72 | 148 |
| 70-79 | 21 | 59 |
| 80- | 0 | 2 |
| Total | 175 | 416 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 17 | 63 |
| 1-2 | 12 | 59 |
| 2-3 | 17 | 47 |
| 3-5 | 30 | 79 |
| 5-10 | 65 | 118 |
| 10-20 | 33 | 50 |
| >20 | 1 | 0 |
| Total | 175 | 416 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Parkinson’s disease

|  |
| --- |
| **Samples and subjects** |
|  | **Total** | **With prospective sample** | **With at least 2 prospective samples** | **With only retrospective samples** |
| Number of samples | 1242 |  |  |  |
| Number of subjects Men Women | 637341297 | 552299253 | 24580165 |  86 4244  |
| Expected at update of the register autumn 2020 |  | 850 |  |  |

|  |
| --- |
| **Extracted DNA** |
|  | **With prospective sample** | **With only retrospective samples** |
| Number of subjects Men Women | 390217173 | 5023 27 |

|  |
| --- |
| **Prospective plasma samples by year of sampling – Men** |
| Year of sampling | **Number of samples** | **Unthawed samples of EDTA-plasma** | **Unthawed samples of heparin plasma** |
| <1990 | 16 | 5 | 4 |
| 1990-1999 | 261 | 89 | 148 |
| 2000-2009 | 104 | 83 | 95 |
| 2010- | 6 | 6 | 6 |
| Total | 387 | 183 | 253 |

|  |
| --- |
| **Prospective plasma samples by year of sampling - Women** |
| Year of sampling | Number of samples | Unthawed samples of EDTA-plasma | Unthawed samples of heparin plasma |
| <1990 | 13 | 5 | 6 |
| 1990-1999 | 440 | 316 | 375 |
| 2000-2009 | 166 | 155 | 164 |
| 2010- | 4 | 3 | 3 |
| Total | 623 | 479 | 548 |

|  |
| --- |
| **Age at diagnosis, for those with prospective plasma samples** |
|  | Men | Women |
| < 40 | 1 | 1 |
| 40-49 | 13 | 5 |
| 50-59 | 62 | 37 |
| 60-69 | 139 | 116 |
| 70-79 | 81 | 82 |
| 80- | 3 | 12 |
| Total | 299 | 253 |

|  |
| --- |
| **Time (years) between the last prospective plasma sample and diagnosis** |
|  | Men | Women |
| < 1 | 8 | 18 |
| 1-2 | 19 | 28 |
| 2-3 | 15 | 19 |
| 3-5 | 42 | 40 |
| 5-10 | 125 | 100 |
| 10-20 | 85 | 48 |
| >20 | 5 | 0 |
| Total | 299 | 253 |

**Year of diagnosis, for those with prospective samples**



 Year of diagnosis

# Comorbidity: Breastcancer, pancreascancer and myocardial infarction

|  |  |  |  |
| --- | --- | --- | --- |
|  | Breastcancer | Pancreascancer | Infarct |
| Breastcancer | na | 17 | 140 |
| Pancreascancer | 17 | na | 25 |
| Myocardial infarction | 140 | 25 | na |