

Malmö Preventive Project
Department of Clinical Sciences
Skåne University Hospital, Malmö
Lund University

Malmö Preventive Project

Vital Status – Cancer Endpoints

End of follow-up: 31 December 2016
Report: 16 November 2017

1. Cohort
2. Lost to follow-up
3. Vital status
4. Time of follow-up
5. Cause-of-death
6. Cancer endpoints

Anders Dahlin
Jonas Manjer

1. Cohort

Total: 33 346

Men: 22 444

Women: 10 902

Amendments and implementation of new procedures

Year*Description**

2017 - Data from SCB (until Dec 2016) were used as the primary source for death and emigration dates, a few death dates may originate from NAVET (until March 2015), PopregRS (until Nov 2016) or SoS.

2011 - Information of reused (återanvända) Personal Identity Numbers (PIN) was taken into account, diagnoses appearing after the date of death of an MPP participating individual were removed.

- For individuals with changed PINs, data with the new PIN (death, emigration, diagnoses) were included in the endpoint update.

- Date of death as given by SCB has been used (previously dates from SoS were used)

* The year when the endpoint update and this endpoint report is finalized, usually last follow-up date is the year before.

** NAVET = National registration data by The Swedish Tax Agency; SCB = Statistics Sweden

SoS = The National Board of Health and Welfare; PopregRS = Population register Region Skåne

2. Lost to follow-up

Left the country until 31 Dec. 2016 according to SCB.

| Population | Number of subjects | Number of subjects in 2015 | Number of subjects in 2016 |
|------------|--------------------|----------------------------|----------------------------|
| Total | 600 | 12 | 11 |
| men | 458 | 10 | 8 |
| women | 142 | 2 | 3 |

3. Vital status

Deaths until 31 Dec. 2016 according to SCB.

| Population | Number of deaths | Number of deaths in 2015 | Number of deaths in 2016 |
|------------|------------------|--------------------------|--------------------------|
| Total | 15 103 | 816 | 923 |
| men | 11 287 | 527 | 620 |
| women | 3 816 | 289 | 303 |

4. Time of follow-up

From date of entry to death, lost to follow-up or to 31 Dec. 2016.

| Population | Person-years |
|------------|--------------|
| Total | 1 001 290 |
| men | 688 873 |
| women | 312 417 |

5. Cause-of-death

Cause-of-death in the cohort of 33 346 individuals.

Cause-of-death available until 31 Dec. 2016; n=14 938

| ICD-9 | ICD-10 | Cause-of-death | Total | Per cent |
|---------|------------|---|-------|----------|
| 1-139 | A, B | Certain infectious diseases | 221 | 1,5 |
| 140-239 | C, D00-D48 | Tumours | 5 248 | 35,1 |
| 240-279 | E, D80-D89 | Endocrine, metabolic, immunological disease | 385 | 2,6 |
| 280-289 | D50-D77 | Blood disease | 27 | 0,2 |
| 290-319 | F | Psychiatric disease | 451 | 3,0 |
| 320-389 | G, H | Neurological disease | 535 | 3,6 |
| 390-459 | I | Cardio-vascular disease | 5 317 | 35,6 |
| 460-519 | J | Respiratory disease | 1 025 | 6,9 |
| 520-579 | K | Digestive disease | 489 | 3,3 |
| 580-629 | N | Uro-genital disease | 142 | 1,0 |
| 630-676 | O | Pregnancy and partus complications | 0 | 0,0 |
| 680-709 | L | Dermatological disease | 14 | 0,1 |
| 710-739 | M | Musculoskeletal disease | 58 | 0,4 |
| 740-759 | Q | Birth defects | 18 | 0,1 |
| 760-779 | P | Certain perinatal conditions | 0 | 0,0 |
| 780-799 | R | Symptoms and unspecified disease | 319 | 2,1 |
| 800-999 | V, W, X, Y | Injuries and poison | 689 | 4,6 |

6. Cancer endpoints

Cancer events

Number of cancer events until 31 Dec 2016 in the cohort of 33 346 individuals.

Prevalent: date of diagnosis \leq date of entry

Incident: date of diagnosis $>$ date of entry

| | |
|----------------------|--------|
| Cancer events, total | 15 500 |
|----------------------|--------|

| | |
|-------------------------------|-------|
| Prevalent tumours at baseline | 1 356 |
| men | 187 |
| women | 1 169 |

| | |
|------------------|--------|
| Incident tumours | 14 144 |
| men | 9 533 |
| women | 4 611 |

Cancer cases - total

Number of individuals with cancer in the cohort of 33 346 individuals.

Prevalent / incident status according to date of first tumour in the studied site.

| ICD-7 | Site | Total | | |
|----------|-----------------------------------|------------------|---------------------|---------------|
| | | prevalent | incident | incident 2016 |
| 151 | stomach | 7 | 294 | 7 |
| 153 | colon (excluding rectum) | 20 | 890 | 40 |
| 154 | rectum | 12 | 509 | 15 |
| 153-154 | colon or rectum | 31 | 1 375 | 54 |
| 157 | pancreas | 0 | 302 | 13 |
| 162 | trachea, bronchus, lung or pleura | 3 | 1 370 | 51 |
| 170 | breast (invasive) | 148 (0 males) | 997 (19 males) | 27 |
| 170 | breast (cis+invasive) | 170 (0 males) | 1 070 (20 males) | 26 |
| 171 | cervix uteri (invasive) | 47 | 41 | 1 |
| 171 | cervix uteri (cis+invasive) | 721 | 238 | 1 |
| 172 | corpus uteri | 20 | 191 | 2 |
| 175 | ovary | 41 | 146 | 3 |
| 177 | prostate | 5 | 2 551 | 97 |
| 180 | kidney | 12 | 319 | 12 |
| 181 | urinary tract, (excluding kidney) | 25 | 924 | 37 |
| 190 | malignant melanoma of skin | 48 | 554 | 30 |
| 191 | skin (melanoma excl.) | 10 | 909 | 87 |
| 193 | nervous system | 29 | 279 | 6 |
| 200, 201 | malignant lymphoma | 15 | 390 | 20 |

Cancer cases - men /women

Number of individuals with cancer in the cohort of 33 346 individuals.

Prevalent / incident status according to date of first tumour in the studied site.

| ICD-7 | Site | Prevalent | | Incident | |
|----------|-----------------------------------|-----------|--------|----------|--------|
| | | Male | Female | Male | Female |
| 151 | Stomach | 5 | 2 | 239 | 55 |
| 153 | colon (excluding rectum) | 13 | 7 | 599 | 291 |
| 154 | rectum | 5 | 7 | 380 | 129 |
| 153-154 | colon or rectum | 17 | 14 | 961 | 414 |
| 157 | pancreas | 0 | 0 | 204 | 98 |
| 162 | trachea, bronchus, lung or pleura | 0 | 3 | 1 025 | 345 |
| 170 | breast (invasive) | 0 | 148 | 19 | 978 |
| 170 | breast (cis+invasive) | 0 | 170 | 20 | 1 050 |
| 171 | cervix uteri (invasive) | - | 47 | - | 41 |
| 171 | cervix uteri (cis+invasive) | - | 721 | - | 238 |
| 172 | corpus uteri | - | 20 | - | 191 |
| 175 | ovary | - | 41 | - | 146 |
| 177 | prostate | 5 | - | 2 551 | - |
| 180 | kidney | 4 | 8 | 249 | 70 |
| 181 | urinary tract, (excluding kidney) | 21 | 4 | 805 | 119 |
| 190 | malignant melanoma of skin | 22 | 26 | 406 | 148 |
| 191 | skin (melanoma excl.) | 6 | 4 | 640 | 269 |
| 193 | nervous system | 11 | 18 | 177 | 102 |
| 200, 201 | malignant lymphoma | 10 | 5 | 272 | 118 |