The Malmö Diet and Cancer Study
Department of Clinical Sciences
Skåne University Hospital, Malmö
Lund University

The Malmö Diet and Cancer Study
The EPIC cohort

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

Background population: 74 137
           Men: 31 513
           Women: 42 624

Malmö Diet and Cancer Study (MDC) cohort
Individuals qualify to the MDC cohort if they participated in at least one part of the Malmö Diet and Cancer Study.

Total: 30 446
           Men: 12 120
           Women: 18 326

EPIC cohort
Individuals qualify to the EPIC cohort if they completed the socio-medical questionnaire, anthropometric measurements and dietary assessment.

Total: 28 098
           Men: 11 063
           Women: 17 035

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 MDC 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)
      - One individual in the MDC cohort (not in EPIC) was identified with two different PINs, the latest PIN was removed. The new MDC cohort number is 30 446.

* 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
EPIC cohort	233	7	9
Men	91	1	3
Women	142	6	6

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
EPIC cohort	9 827	747	814
Men	4 945	346	339
Women	4 882	401	475

4. Time of follow-up

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

Population	Person-years
EPIC cohort	556 990
Men	209 685
Women	347 305

5. Cause-of-death

Cause-of-death in the EPIC cohort of 28 098 individuals.

Cause-of-death available until 31 Dec. 2016; n=9 787

ICD-9	ICD-10	Cause-of-death	Total	Per cent
1-139	A, B	Certain infectious diseases	170	1,7
140-239	C, D00-D48	Tumours	3 613	36,9
240-279	E, D80-D89	Endocrine, metabolic, immunological disease	261	2,7
280-289	D50-D77	Blood disease	23	0,2
290-319	F	Psychiatric disease	431	4,4
320-389	G, H	Neurological disease	449	4,6
390-459	I	Cardio-vascular disease	3 220	32,9
460-519	J	Respiratory disease	622	6,4
520-579	K	Digestive disease	272	2,8
580-629	N	Uro-genital disease	106	1,1
630-676	O	Pregnancy and partus complications	0	0,0
680-709	L	Dermatological disease	12	0,1
710-739	M	Musculoskeletal disease	41	0,4
740-759	Q	Birth defects	7	0,1
760-779	P	Certain perinatal conditions	0	0,0
780-799	R	Symptoms and unspecified disease	248	2,5
800-999	V, W, X, Y	Injuries and poison	312	3,2

6. Cancer endpoints

Cancer events

Number of cancer events until 31 Dec 2016 in the EPIC cohort of 28 098 individuals.

Prevalent: date of diagnosis ≤ date of entry
Incident: date of diagnosis > date of entry

Cancer events, total	14 190
Prevalent tumours at baseline	3 426
Men	525
Women	2 901
Incident tumours	10 764
Men	4 955
Women	5 809

Cancer cases - total
Number of <u>individuals</u> with cancer in the EPIC cohort of 28 098 individuals.
Prevalent / incident status according to date of first tumour in the studied site.

ICD-7	Site	Total		
		Prevalent	Incident	Incident 2016
151	Stomach	14	158	7
153	Colon (excluding rectum)	97	676	33
154	Rectum	73	368	16
153-154	Colon or rectum	167	1 026	49
157	Pancreas	0	197	9
162	Trachea, bronchus, lung or pleura	27	757	30
170	Breast (invasive)	479 (3 males)	1 274 (4 males)	40
170	Breast (cis+invasive)	579 (3 males)	1 344 (5 males)	40
171	Cervix uteri (invasive)	86	33	3
171	Cervix uteri (cis+invasive)	1 412	148	4
172	Corpus uteri	103	202	3
175	Ovary	68	161	3
177	Prostate	96	1 524	60
180	Kidney	37	188	8
181	Urinary tract, (excluding kidney)	60	548	35
190	Malignant melanoma of skin	173	450	28
191	Skin (melanoma excl.)	65	828	80
193	Nervous system	52	192	7
200, 201	Malignant lymphoma	47	279	13

Cancer cases - men /women

Number of <u>individuals</u> with cancer in the EPIC cohort of 28 098 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	9	5	98	60
153	Colon (excluding rectum)	50	47	309	367
154	Rectum	28	45	192	176
153-154	Colon or rectum	76	91	490	536
157	Pancreas	0	0	76	121
162	Trachea, bronchus, lung or pleura	14	13	370	387
170	Breast (invasive)	3	476	4	1 270
170	Breast (cis+invasive)	3	576	5	1 339
171	Cervix uteri (invasive)	-	86	-	33
171	Cervix uteri (cis+invasive)	-	1 412	-	148
172	Corpus uteri	-	103	-	202
175	Ovary	-	68	-	161
177	Prostate	96	-	1 524	-
180	Kidney	17	20	99	89
181	Urinary tract, (excluding kidney)	43	17	388	160
190	Malignant melanoma of skin	66	107	216	234
191	Skin (melanoma excl.)	38	27	416	412
193	Nervous system	17	35	72	120
200, 201	Malignant lymphoma	21	26	128	151