

Swedish National
Breast Cancer Study

Karma

Breast cancer variables from the RCC STHLM register (-2007) in Karma

The RCC STHLM register holds the historic data of INCA (information network for cancer treatment) up to year 2007. Karma holds breast cancer records for all Karma study participants who have been diagnosed with breast cancer as a primary diagnosis. The register documents the chain of hospitalized treatments from first time cancer diagnosis to cases with cancer relapse or decease. The register is restricted to information on the first breast diagnosed with cancer and is also restricted to invasive cancer and in situ cancer. Women with Phyllodes tumors, sarkom or lymphoma are not included in the register. And the register does not include information of deceased women where and an autopsy was performed and there was a tumor finding for the first.

The register includes information on pre-surgical diagnostics, as well as occurrences of tumors, kind of surgery performed, and treatment/diagnostic latencies. It also includes information on short/long term complication and relapses.

Karma holds the following RCC STHLM breast cancer variables:

Variables for first-time visit

Dodat

Death Date, YYYYMMDD

Dodors1

Underlying cause, if it is cancer. Not recorded, transferred from the death registry

Vanlas

Reporting hospital

Vankli

Reporting clinic

Vdiadat

Diagnosis Date, YYYYMMDD

Her

Family history of breast cancer

1 = Yes

2 = No

9 = Unknown

Herant

Relatives with breast cancer, nbr. Enter the number of 1-9. Blank = Missing.

Mens

Menstrual status.

- 1 = premenopause
- 2 = 0-5 years postmenopause
- 3 = > 5 years postmenopause
- 4 = Uncertain (e.g. hysterectomy)

vicdo

ICDO progress code list.

Vsida

Side of body.

- 1 = Right
- 2 = Left
- 9 = Unknown

vicd9

ICD9 diagnosis at baseline and side indication. Automatically generated by VICDO + Vsida as ICD9 code list.

vicd7

Diagnosis at baseline and side indication – ICD7. Automatically generated by VICDO + Vsida according ICD7 code list.

- 170 = Breast cancer, unknown side
- 1701 = Right Side
- 1702 = Left side
- 1707 = Multiple right-hand side
- 1708 = Multiple left side
- 1709 = Chest UNS

tumstat

Tumor classification, clinical stage.

- 0 = Paget (goes before T0-T3)
- 9 = T0 (no tumor palp)

19 = T1 (tumor <20 mm)
29 = T2 (tumors 20-50 mm)
39 = T3 (→ > 51 mm)
41 = T4A
42 = T4b
43 = Inflammatory cancer
99 = Unknown

lgllstat

Lymph node status, clinical stage

00 = N0 no palp / paget
11 = N1A not susp
12 = N1b susp
20 = N2 fixed
30 = N3
99 = Unknown

fjarmmet

Distant metastases

0 = No, no distant metastases proven or box is not checked and no other signs of distant metastases found on Form 1 (for example, that pat is primarily operated).

1 = Yes, there are distant metastases.

primop

Primary operated.

1 = Yes

2 = No (which includes all the reasons described below,

Pinop = 1-3 and neoadjuvant treatment)

pinop

Reason for not primarily operated

1 = Locally advanced disease

2 = distant recurrence

3 = Other reason

annorsak

Not a primary surgery because of other reasons, which free text

neoadj

Neoadjuvant treatment

1 = Yes

2 = No

Blank = Missing

neoadjtyp

Neoadjuvant treated (free text).

opdat

Operation date, YYYYMMDD.

oplas

Operating hospital

brostop

Breast surgery type

1 = Mastectomy

2 = Breast Conservation op

3 = Other operation

4 = subcutaneous mastectomy

axillop

Axill operation

1 = Axillutrymd

2 = Not axillutrymd

3 = not known

If only Sentinel node is made (up to 3 selected Igll) should be recorded as Non "axillutrymd"

Annoptyp

Other operation type (free text)

sentnod

Sentinel node biopsy performed

1 = Yes

2 = No

primrek

Primary breast reconstruction.

1 = Yes

2 = No

vprepr

PAD code. Concerns breast tumor specimen

vprepar

Breast tumor preparation year.

catyp

Cancer invasiveness

1 = invasive cancer

2 = Only non-infiltrative cancer

3 = Mixed invasive and non-infiltrative

vpad

PAD (Pathological anatomical diagnosis)

PAD code as listed, histopathological diagnosis according to WHO.

Typinsitu

Type of non-infiltrative cancer

1 = DCIS

2 = LCIS

3 = Other in situ cancers

patant

Number of tumors started. Upgrading from PAD. Enter the number 0-9 or if accurate information is missing;

1 = 1 or infiltrative tumor about which number is missing and there are not multiple tumors.

2 = 2 tumors or written in the text, "multiple", "several", "multifocal" or "cures" .

9 => 9 tumors

Blank = Missing or non-infiltrative cancer of the number of missing

0 = If the tumor disappeared after neoadjuvant therapy

patstl

Tumor size. Ofix Upgrading of PAD. Stated in mm and 0-filled in (eg 3mm = 003). In the presence of several tumors, record the largest diameter of the largest tumor.

999 = Invasive cancer where size is missing

Blank = Not infiltrative cancer where size is missing

000 = If the tumor disappeared after neoadjuvant therapy.

patlgll

Lymph nodes in the preparation, nbr. Upgrading from PAD

Enter the number and 0-filled in (for example, 2x = 02)

or

98 = "A lot" or "multiple", "several"

99 = Upgrading missing

Blank = Not axillutrymd

00 = Not Found Igll in surgery preparation (such as may happen after neoadjuvant therapy)

patmet

Lymph nodes with metastases in the preparation, nbr.

Enter the number and 0-Fill in

or

00 = no metastases

98 = "A lot" or "multiple" metastases

99 = Unknown

Blank = Not axillutrymd or Sentinel node op without meth

loklaber

Estrogen-receptor measurement, immunohistochemistry according to local lab

1 = positive

2 = Negative

loklabpr

Progesterone receptor-measurement, immunohistochemistry according to local lab

1 = positive

2 = Negative

Elston

Elston-grading

1 = I

2 = II

3 = III

postopbeh

Postoperative treatment

0 = No treatment

10 = Radiotherapy alone

20 = Chemotherapy only

30 = Endocrine therapy only

40 = Other treatment

12 = RT + Cyt

13 = RT + Endocrine beh
14 = RT + Other beh
15 = RT + Cyt + Endocrine beh
23 = Cyt + Endocrine beh
24 = Cyt + Other beh
25 = Cyt + ABMT
34 = Endocrine + Other beh beh
99 = Unknown

rtspec

Radiotherapy specification

1 = Only the chest
2 = Chest / thorax + regional lymph nodes

cytspec

Chemotherapy specification

1 = CMF
2 = anthracycline
3 = Taxane-Based
4 = Other

endospec

Endocrine therapy (free text)

annbehspec

Other treatment (free text)

erres

Estrogen receptor determination. Listed in fmol /?g DNA with two decimal places. Recorded with four digits, two positions before and two positions after the comma (are filled with 0s). E.G. 1.2 = 1:20 are recorded as 0120.

1 = 1:00 is recorded as 0100
0.05 = 00:05 is recorded as 0005

Blank = Missing

As a "positive" value, we have here in Stockholm calculated values of > 0:05

prres

Progesterone receptor determination. Listed in fmol /?g DNA with two decimal places. Recorded with four digits, two positions before and two positions after the comma (are filled with 0s). Ex. 1.2 = 01,20 recorded as 0120.

1 = 1:00 is recorded as 0100

0.05 = 00:05 is recorded as 0005

Blank = Missing

As a "positive" value, we have here in Stockholm calculated values of > 0:05

Variables for follow-up visit

beslas

Hospital for the follow-up visit.

beskli

Clinic where follow-up visit was made.

besdat

Patient visit date - date of last visit with variable "beslas" and "beskli",
YYYYMMDD.

reclok1

Location of 1st loco-regional relapse - ICD9.

1741 = Local recurrence right side

1742 = Local recurrence left side

1960 = Regional recurrence of IgII in the fossa supra clav

1963 = Regional recurrence of axillen

recdat1

Date of diagnosis of 1st recurrence loco-regional, YYYYMMDD.

reclok2

Location of 2nd loco-regional relapse – ICD9. See codes for reclok1.

recdat2

Date of diagnosis of 2nd loco-regional relapse, YYYYMMDD.

reclok3

Location for 3rd loco-regional relapse (according to ICD9 classification).

See codes for reclok1.

recdat3

Date of diagnosis of the 3rd loco-regional relapse, YYYYMMDD.

reclok4

Location for the 4th loco-regional relapse (according to ICD9 classification). See codes for reclok1.

recdat4

Date of diagnosis of the 4th loco-regional relapse, YYYYMMDD.

metlok1

Location of 1st distant recurrence – ICD9.

1960 = Lgll the contralateral fscl

1961 = Lgll intrathoracalt

1962 = Lgll abdominal

1963 = Lgll in contralateral axillen

1968 = Lgll multiple localization (contralateral)

1969 = Lgll unspecified localization

1970 = distant recurrence in lung

1971 = distant recurrence in the mediastinum

1972 = distant recurrence in the pleural

1974 = distant recurrence in small intestine

1976 = distant recurrence in the peritoneum and retroperitoneum

1977 = distant recurrence in liver

1979 = distant recurrence in other and unspecified digestive organs

1982 = distant recurrence in the skin

1983 = distant recurrence in the brain

1984 = distant recurrence in other and unspecified parts of nervous system

1985 = distant recurrence in the bone

1986 = distant recurrence in the ovary

1989 = distant recurrence in other specified premises

metdat1

Date of diagnosis of 1st distant metastase, YYYYMMDD.

metlok2

Location for 2nd distant recurrence – ICD9. See codes for metlok1.

metdat2

Date of diagnosis of 2nd distant metastase, YYYYMMDD.

metlok3

Location for 3rd distant recurrence (by ICD9 classification). See codes for metlok1.

metdat3

Date of diagnosis of the 3rd distant metastase, YYYYMMDD.

metlok4

Location for the 4th distant recurrence (by ICD9 classification). See codes for metlok1.

metdat4

Date of diagnosis of the 4th distant metastase, YYYYMMDD.

System variables

round_rccsthlm_breastcancer

Round of RCC STHLM breast cancer registration, i.e. the order number of times the study participant were registered in the register. Used for stratifying order of registration events.

year_rccsthlm_breastcancer

Year of RCC cancer diagnose registration. Used for stratifying time series data.

month_rccsthlm_breastcancer

Month of RCC cancer diagnose registration. Used for stratifying time series data.

source_rccsthlm_breastcancer

Available RCC STHLM breast cancer register data.