# **Munich Cancer Registry**



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## ICD-10 D39.1: Borderline ovarian tumor

## **Incidence and Mortality**

Year of diagnosis	1998-2014
Patients	1,168
Diseases	1,169
Creation date	04/13/2016
Export date	12/23/2015
Population (females)	2.36 m



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http://www.tumorregister-muenchen.de/en

http://www.tumorregister-muenchen.de/en/facts/base/bD391\_E-ICD-10-D39.1-Borderline-ovarian-tumor-incidence-and-mortality.pdf

# Global Statements about the statistics on the Internet – Baseline Statistics (grey button ——), Survival (red button ——)

In these analyses, the clinics and physicians of Upper Bavaria and the city and county of Landshut<sup>#</sup>, with a total of 4.64 million inhabitants, account for the frequency of cancer diseases<sup>##</sup> and the achieved long term results. Additionally, the long term survival evaluated by the Munich Cancer Registry (MCR) is compared with the results of the population-based registry in the USA (SEER), which is useful for checking the consistency of the data on an international level.

In comparing several tables, inconsistent figures may be detected. This is based on the fact that different patient cohorts are included in the base calculation, for example when proportions of multiple tumors or DCO-cases\*\*\*\* are concerned. In other cases the individual tumor diagnosis is the basis for calculation, for example with incidence.

The foot notes describe the currentness of the data. The baseline statistics and survival data are updated annually. This yearly analysis comprises the Annual Report of the MCR.

Clinics and physicians have access to essentially more detailed data, with which they can check, compare and in the best case optimize their own data and results.

We would be pleased to receive corrections, critique and useful suggestions. Just send an e-mail to tumor@ibe.med.uni-muenchen.de.

Munich Cancer Registry, April 2016

- Base data has been collected since 1998. An increase in new diseases is apparent, which is an effect of two extensions in the MCR catchment area (from a base population of 2.51 million to 3.96 in 2002, and to 4.52 million in 2007).
- Due to the high frequency and good prognosis of non-malignant skin cancer (C44), no systematic ascertainment is performed for this diagnosis. C44 is not designated as a primary, but rather as a secondary tumor.
- DCO (death certificate only) identifies a cancer case that first becomes available to the MCR through the death certificate.

### ICD-10 codes (ICD-10 2015) used for specifying cancer site

Description
Neoplasm of uncertain or unknown behaviour of female genital organs: Ovary

## **INCIDENCE**

Table 1

All patients by year of diagnosis, proportions of multiple primaries, deaths, and active follow-up

		Prop.		Prop.
		mult.	Prop.	actively
Year of	Cases	primaries	deaths	followed
diagnosis	n	olo	양	용
1998	19	31.6	26.3	94.7
1999	24	25.0	29.2	91.7
2000	32	28.1	18.8	93.8
2001	23	21.7	21.7	95.7
2002	43	23.3	11.6	83.7 #
2003	50	24.0	26.0	90.0
2004	70	25.7	22.9	91.4
2005	75	21.3	16.0	90.7
2006	73	19.2	4.1	83.6
2007	90	22.2	11.1	55.6 #
2008	98	12.2	7.1	35.7
2009	94	18.1	8.5	43.6
2010	103	16.5	5.8	39.8
2011	107	12.1	0.9	39.3
2012	86	23.3	3.5	48.8
2013	95	16.8	5.3	98.9
2014	87	14.9	2.3	97.7 ##
1998-2014	1169	19.2	9.8	68.1

- # The increases of incident cases in 2002 and 2007 reflect the expansion to additional registry areas.
- ## Please be aware that data of recent annual patient cohorts may not yet be fully processed. The years under evaluation can be found in the respective headings.

Table 2

Incidence measures by year of diagnosis
(with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.64 m as of 2007, respectively)

Year of	Cases	Incidence	Incidence	Incidence	Incidence
diagnosis	n	raw	WS	ES	BRD-S
1998	19	1.6/	1.1	1.4	1.5
1999	24	2.0	1.5	1.8	1.9
2000	32	2.7	1.7	2.2	2.4
2001	23	1.9	1.5	1.8	2.0
2002	43	2.2	1.7	1.9	2.1
2003	50	2.5	1.8	2.2	2.4
2004	70	3.5	2.5	3.1	3.2
2005	75	3.8	2.7	3.4	3.6
2006	73	3.6	2.6	3.2	3.4
2007	90	3.9	2.7	3.4	3.7
2008	98	4.2	2.9	3.6	3.9
2009	94	4.0	2.7	3.4	3.7
2010	103	4.4	3.0	3.7	4.1
2011	107	4.5	3.3	4.1	4.3
2012	86	3.6	2.4	3.1	3.3
2013	95	4.0	2.8	3.4	3.8
2014	87	3.7	2.3	3.0	3.3
1998-2014	1169	3.5	2.4	3.0	3.3

The computation of the incidence measures includes all primaries, irrespective of first or subsequent malignancy.

Table 3 Age distribution parameters by year of diagnosis

Year of	Cases		Std.					Median		
diagnosis	n	Mean	dev.	Min.	Max.	10%	25%	50%	75%	90%
1998	19	57.1	17.3	18.2	80.2	30.2	44.1	58.8	68.3	79.9
1999	24	54.8	14.8	17.0	83.5	34.9	48.7	58.6	63.9	68.5
2000	32	55.1	16.4	28.5	86.4	31.9	44.5	53.7	66.3	78.6
2001	23	51.3	17.9	18.8	79.5	24.1	34.5	49.9	66.9	75.4
2002	43	49.0	18.1	6.6	83.4	25,2	35.9	48.5	61.8	72.8
2003	50	54.1	19.5	16.6	88.6	29.0	35.2	55.5	67.7	77.5
2004	70	53.1	14.7	11.5	79.7	35.6	42.3	54.5	64.6	70.0
2005	75	53.5	15.9	18.9	86.7	30.6	43.3	53.5	66.4	73.8
2006	73	52.6	17.7	12.8	85.3	30.5	40.4	53.1	63.3	79.6
2007	90	54.5	15.7	17.8	85.2	34.9	43.8	56.1	64.9	77.8
2008	98	53.2	14.6	18.7	92.3	36.2	41.3	50.2	63.6	73.4
2009	94	54.3	15.8	18.6	82.3	32.1	41.5	53.7	68.5	75.8
2010	103	54.6	15.5	16.3	85.2	34.3	45.9	52.8	67.8	75.7
2011	107	53.3	15.8	7.8	95.5	29.3	43.9	53.8	62.9	73.1
2012	86	54.1	15.2	26.0	88.8	31.9	42.8	54.2	67.0	75.4
2013	95	54.0	15.4	21.3	91.3	31.8	45.5	52.6	63.7	74.4
2014	87	57.7	15.6	15.8	93.6	38.5	47.2	56.7	67.9	77.9
1998-2014	1169	54.0	16.0	6.6	95.5	32.6	42.9	54.0	65.3	75.6

Table 4 Age distribution by 5-year age group for period 2007-2014

7.00 0+				
Age at	Canaa			
diagnosis	Cases	0	0	
Years	n	용	Cum.%	
F 0	/	0 1	0 1	
5-9	/ 1	0.1	0.1	
10-14	0	0.0	0.1	
15-19	5	0.7	0.8	
20-24	9	1.2	2.0	
25-29	29	3.8	5.8	
30-34	45	5.9	11.7	
35-39	45	5.9	17.6	
40 - 44	66	8.7	26.3	
45-49	107	14.1	40.4	
50-54	95	12.5	52.9	
55-59	88	11.6	64.5	
60-64	72	9.5	73.9	
65-69	62	8.2	82.1	
70-74	55	7.2	89.3	
75-79	4.3	5.7	95.0	
80-84	2.4	3.2	98.2	
85+	14	1.8	100.0	
. · ·	<u> </u>	1.0	100.0	
All ages	760	100.0		
min ages	, 50	100.0		

Included in the statistics are 20.5% multiple primaries.

Table 5

Age-specific incidence for period 2007-2014

Age at			
diagnosis	Cases	Age-spec.	
Years	n	incidence	
0- 4		0.0	
5-/9	1	0.1	
10-14		0.0	
15-19	5	0.5	
20-24	9	0.8	
25-29	29	2.4	
30-34	45	3.6	
35-39	45	3.6	
40 - 44	66	4.3	
45-49	107	7.1	
50-54	95	7.4	
55-59	88	7.8	
60-64	72	6.8	
65-69	62	5.9	
70-74	55	5.3	
75-79	43	6.0	
80-84	24	4.3	
85+	14	2.4	
All ages	760		
Incidence			
Raw		4.1	
WS		2.8	
ES		3.5	
BRD-S		3.8	

The age-specific incidence characterizes the disease risk in a particular age group. The age distribution depends on the patient population frequency in each age group and reflects the tangible clinical picture of everyday patients care (see following chart).



## ICD-10 D39.1: Borderline ovarian tumor

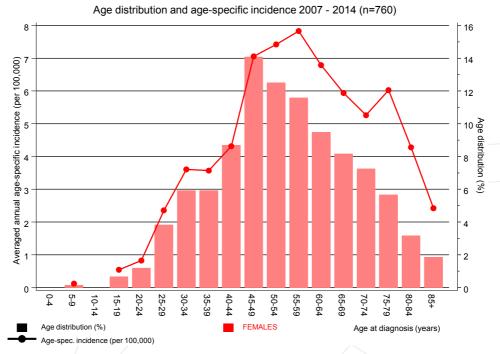


Figure 6. Age distribution and age-specific incidence



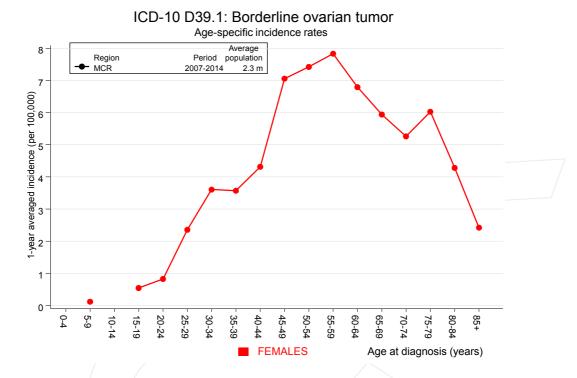


Figure 6a. Age-specific incidence in MCR registry areas.

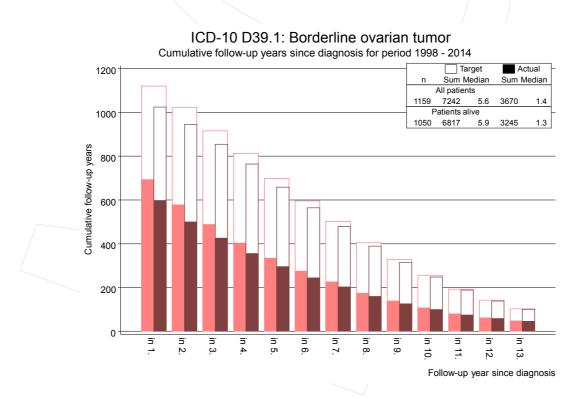


Figure 7. Cumulative follow-up years depending on time since diagnosis

The increase of the lost to follow-up rate can be interpreted as a consequence of a declining number of survivors over time.

Table 8

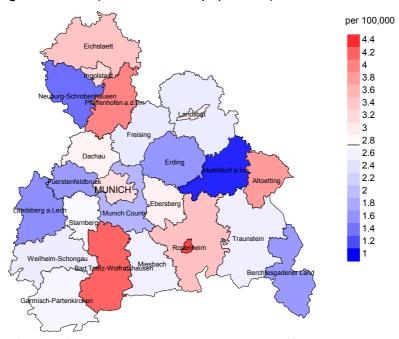
Standardized incidence ratio (SIR, with 95% confidence limits), excess absolute risk (EAR) and DCO rate of second primaries for period 1998-2014

			Observed	Expected		LCL	UCL		DCO
	Diagnosi	is	/ n /	n	SIR	95%	95%	EAR	%
			/ /				10.0		
	C16	Stomach	4	0.8	4.9		12.6		
	C18	Colon	/ 9	2.3	3.9		7.4		
	C19-C20		3	1.1	2.8		8.3		
	C25	Pancreas	6	1.0	5.8		12.6		16.7
	C33-C34	=	3	2.0	1.5	0.3	4.4	2.8	
	C43	Malign. melanoma		1.2	2.5		7.2		
	C46,C49	Soft tissue	3	0.2	19.0	3.9	55.4	# 7.8	
	C48	Peritoneal	2	0.1	18.8	2.3	68.1	# 5.2	
	C50	Breast	22	9.4	2.3	1.5	3.6	# 34.6	
	C53	Cervix uteri	5	0.5	9.6	3.1	22.3	# 12.3	
	C54	Corpus uteri	9	1.5	5.9	2.7	11.1	# 20.4	11.1
	C56	Ovary	17	1.1	15.2	8.8	24.3	# 43.5	
	C64	Kidney	3	0.6	4.8	_1.0	14.0	6.5	
	C73	Thyroid	3	0.7	4.3	0.9	12.6	6.3	
	C76-C79	CUP	4	0.4	9.6	2.6	24.5	# 9.8	
	C82-C85	NHL	2	1.0	2.1	0.2	7.4	2.8	
	Other pr	rimaries \	12	2.2	5.5	2.8	9.6	# 26.8	
	Not obse	erved	0	1.7	0.0	0.0	2.2	-4.6	
	All mult	. primaries	110	27.8	4.0	3.3	4.8	# 224.9	1.8
		-							
Pat	tients			114	1				
Ме	dian age	at second malign	ancy (year	(s) 62.	3				
Pe:	rson-year	rs -		365	4				
	_	ation time (year	s)	3.	2				
		ervation time (ye		1.	5				
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							

<sup>#</sup> The occurrence of second malignancy is statistically significant.

Observed second primaries with count 1 are pooled in category "Other primaries"

## Average incidence (world standard population) 2007 - 2014



**Figure 9a.** Map of cancer incidence (world standard population) by county averaged for period 2007 to 2014. According to their individual incidence rates, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population mean (2.7/100,000 WS N=760).

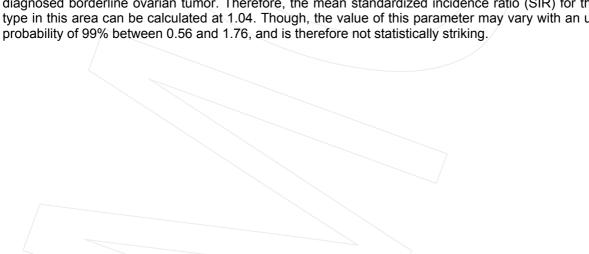
The results should be interpreted with caution! E.g., in county Ebersberg with a population of 65,347 female residents (averaged) in the period from 2007 to 2014 a total of 22 women were identified with newly diagnosed borderline ovarian tumor. Therefore, the mean incidence rate for this cancer type in this area can be calculated at 2.9/100,000 (world standard population). Though, the value of this parameter may vary with an underlying probability of 99% between 1.5 and 5.4/100,000.



## Standardized incidence ratio (SIR) 2007 - 2014 SIR 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 0.9 8.0 0.7 MUNICH 0.6 0.5 0.4

**Figure 9b.** Map of standardized incidence ratio (SIR) by county averaged for period 2007 to 2014. According to their individual SIR values, the counties are displayed in different red and blue color temperatures where the fine white color indicates the population overall of 1.0 (N=760).

The results should be interpreted with caution! E.g., in county Ebersberg with a population of 64,924 female residents (averaged) in the period from 2007 to 2014 a total of 22 women were identified with newly diagnosed borderline ovarian tumor. Therefore, the mean standardized incidence ratio (SIR) for this cancer type in this area can be calculated at 1.04. Though, the value of this parameter may vary with an underlying probability of 99% between 0.56 and 1.76, and is therefore not statistically striking.



## **MORTALITY**

### Table 10a

Patient cohorts of incident cancers by year of diagnosis, follow-up status, and deaths among the annual cohorts

(with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.64 m as of 2007, respectively)

		Prop.			Prop. deaths
	Incident	actively		Prop.	with death
Year of	cases	followed	Deaths	deaths	certific.
diagnosis	n	%	n	%	용
1998	19	94.7	5	26.3	100.0
1999	24	91.7	7	29.2	100.0
2000	32	93.8	6	18.8	100.0
2001	23	95.7	5	21.7	100.0
2002	43	83.7	5	11.6	80.0
2003	50	90.0	13	26.0	92.3
2004	70	91.4	16	22.9	100.0
2005	75	90.7	12	16.0	100.0
2006	73	83.6	3	4.1	100.0
2007	90	55.6	10	11.1	100.0
2008	98	35.7	7	7.1	100.0
2009	94	43.6	8	8.5	100.0
2010	103	39.8	6	5.8	100.0
2011	107	39.3	1	0.9	100.0
2012	86	48.8	3	3.5	100.0
2013	95	98.9	5	5.3	100.0
2014	87	97.7	2	2.3	100.0
1998-2014	1169	68.1	114	9.8	98.2

Table 10b

Annual cohorts of incident cancers and deaths, and cases deceased the same year of cancer diagnosis

(with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.64 m as of 2007, respectively)

Prop.	
Year of Incident Deaths in deaths i	n /
diagnosis/ cases Deaths same year same yea	r
death n n %	
1998 19 1	
1999 24 3	
2000 32 3 1 3.1	
2001 23 5	
2002 43 2	
2003 50 8 4 8.0	
2004 70 4	
2005 75 8	
2006 73 6	
2007 90 11 2 2.2	
2008 98 7	
2009 94 12 1.1	
2010 103 11 1.0	
2011 \ 107 9 1 \ \0.9	
2012 \ 86 18	
2013 95 16 1 1.1	
2014 87 19 2 2.3	
1998-2014 1169 143 13 1.1	

Table 10c

Annual cohorts of deaths, and proportion of cancer-related and non-cancer-related deaths

(with respect to registry area expansion from 2.51 to 3.96 m as of 2002, and from 3.96 to 4.64 m as of 2007, respectively)

				Prop.
				cancer
		Prop.	Prop.	recorded
		cancer-	non-cancer-	on death
Year of	Deaths	related	related	certificate
death	n	%	8	%
404011				v
1998	1		100.0	
1999	3	33.3	66.7	33.3
2000	3	66.7	33.3	66.7
2001	5	40.0	60.0	80.0
2002	2	100.0		100.0
2003	8	62.5	37.5	85.7
2004	4	25.0	75.0	25.0
2005	8	50.0	50.0	50.0
2006	6	66.7	33.3	80.0
2007	11	45.5	54.5	45.5
2008	7	71.4	28.6	71.4
2009	\ 12	50.0	50.0	50.0
2010	\11	63.6	36.4	63.6
2011	9	77.8	22.2	77.8
2012	18	66.7	33.3	66.7
2013	16	56.3	43.8	62.5
2014	19	36.8	63.2	47.4
1998-2014	143	55.2	44.8	60.7

Year of death	Deaths n	Age at death (all causes)	Age at death (cancer-related) Years	Age at death (non-cancer-related) Years	Age at death (according to death certificate) Years
1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	1 3 3 5 2 8 4 8 6 11 7 12 11 9 18 16 19	72.2 75.8 62.6 82.8 71.2 68.3 75.3 65.1 72.4 71.9 63.8 76.3 75.2 66.4 73.6 80.8 80.1	69.7 57.8 83.2 71.2 65.8 75.2 70.0 72.4 61.9 62.8 72.8 71.0 64.7 65.9 64.0 76.8	72.2 78.1 78.7 82.8 68.8 75.4 58.8 76.1 78.1 87.5 81.9 83.1 77.4 82.2 87.6 82.6	69.7 57.8 82.2 71.2 73.2 75.2 70.0 77.4 61.9 62.8 72.8 71.0 64.7 65.9 66.1 76.8
1998-2014	143	73.8	68.6	81.3	71.0

By 2010, life expectancy at birth was 77.5 years for boys and 82.6 years for girls.

Deaths of patients are considered to be cancer-related, in case that fact was recorded on the death certificate, or patients had suffered from metastasis or recurrence.

Table 12

Mortality measures (cancer-related death) and mortality-incidence-index by year of death

Year of	Deaths	Mort.	MI-Index	k Mort.	MI-Index	Mort.	MI-Index	Mort.	MI-Index
death	n	raw	raw	WS	WS	ES	ES	BRD-S	BRD-S
1999	1	0.1	0.04	0.1	0.04	0.1	0.04	0.1	0.04
2000	2	0.2	0.06	0.1	0.06	0.1	0.07	0.1	0.06
2001	2	0.2	0.09	0.0	0.02	0.1	0.04	0.1	0.06
2002	2	0.1	0.05	0.0	0.03	0.1	0.04	0.1	0.05
2003	5	0.3	0.10	0.1	0.07	0.2	0.08	0.2	0.08
2004	1	0.1	0.01	0.0	0.01	0.0	0.01	0.0	0.02
2005	4	0.2	0.05	0.1	0.03	0,1	0.04	0.2	0.05
2006	4	0.2	0.05	0.1	0.03	0.1	0.04	0.2	0.05
2007	5	0.2	0.06	0.1	0.04	0.1	0.04	0.2	0.05
2008	5	0.2	0.05	0.2	0.06	0.2	0.06	0.2	0.06
2009	6	0.3	0.06	0.1	0.04	0.2	0.04	0.2	0.05
2010	7	0.3	0.07	0.1	0.05	0.2	0.06	0.3	0.06
2011	7	0.3	0.07	0.2	0.05	0.2	0.05	0.2	0.06
2012	12	0.5	0.14	0.3	0.10	0.4	0.11	0.4	0.13
2013	9	0.4	0.09	0.2	0.07	0.3	0.08	0.3	0.08
2014	7	0.3	0.08	0.1	0.05	0.2	0.06	0.2	0.07
1999-2014	79	0.2	0.07	0.1	0.05	0.2	0.06	0.2	0.06

#### Statistical Notes

In all tables and figures the respective reference values should be carefully considered. The incidence rates include diagnoses (with multiple primary), and death certificate only (DCO) cases, where applicable. For mortality statistics patients, diagnoses and progressive course of disease are presented. In the calculations, all courses of disease are considered whereby progressions occurred and/or death certificate identified progressive cancers were ascertained. Additionally there are three groups of disease course to consider:

## 1. All multiple primaries included

The mortality statistic describes the tumor-specific death, independent of any malignancy. The patient perspective, induced secondary malignancies, and the problem of multiple malignancies from the same primary tumor all have reasons for their inclusion.

## 2. First singular primary (no information about other prior or synchronous malignancy)

The mortality statistic describes the cancer-related death for patients who have no therapeutic restrictions due to a previous or synchronous cancer. These statistics are comparable to studies that have exclusion criteria based on a second malignancy.

## **3. Single primary** (no information about other prior, syn- or metachronous malignancy)

The mortality statistic describes the tumor-specific death that occurs without any impact through secondary primaries, earlier, synchronous, later or induced. Precisely the difference between disease group 1 and 2 highlight the magnitude of the problem of secondary malignancies.

For this reason differences appear concerning official mono-causal mortality statistics. To judge the maximum deviation, 2 further tables are presented. In the first table the distribution of secondary malignancies before, at or after the described cancer are shown, that could be an alternative cause of death. In the second table, the age-specific mortality rates for all courses of disease, without designation of secondary malignancies are shown.

A previously minimally acknowledged statistic is the **age at death**, which allows for a good assessment of the quality of classification of the apparent tumor-specific death. For assumed tumor-independent deaths, the age of death should be estimated from the age of diagnosis and the normal life expectancy, whereas tumor-dependent deaths can be estimated from the age of diagnosis plus the average tumor-specific life expectancy. The comparison of different tumors demonstrates this association, if the causes of cancer and the competing cause of death are independent of each other (e.g. breast and colon versus head/neck and lung).

The index from mortality and incidence (Mortality-Incidence ratio, **MI-index**) is a statistic that allows for the evaluation of the quality of data. For diseases with poor prognoses, comparable values are obtained from all age groups, because to a large extent, the numerator and denominator contain the same cases. For tumors with a good prognosis, increasing and decreasing incidence and age-specific differences in prognosis can more strongly alter the MI- index. Additionally, attention should be paid to the confidence intervals where fewer cases are reported.

The complexity of problems identified here emphasizes the importance of relative survival data for the appropriate analysis of long term results.

As a measurement of the burden of disease, the number of potential life years loss due to premature deaths in a cohort can be calculated (**PYLL**, potential years of life lost, standardized per 100,000 persons or per European standard) as well as the average loss of life years per individual (**AYLL**, average years of life lost). Depending upon the analytic aim (health economy, prevention, health care research) different methods exist for the generation of these measurements. In the results presented here, the age for a premature death is considered to be before 70 years, according to the guidelines of the OECD and the WHO (as seen in the abbreviation PYLL-70 or AYLL-70).

#### **Shortcuts**

FRG Federal Republic of Germany

GEKID Association of Population-based Cancer Registries in Germany

(Gesellschaft der epidemiologischen Krebsregister in Deutschland e.V.)

MCR Munich Cancer Registry (Tumorregister München)
SEER Surveillance, Epidemiology, and End Results (USA)

AYLL-70 Average years of life lost prior to age 70 given a person dies before that age

BRD-S German standard population

DCO Death certificate only EAR Excess absolute risk

= excess cancer cases (O - E) per 10,000 person-years

ES European standard population (old)

LCL Lower confidence limit

MI-index Ratio between mortality and incidence

PYLL-70 Potential years of life lost prior to age 70 given a person dies before that age

SIR Standardized incidence ratio
SMR Standardized mortality ratio
UCL Upper confidence limit
WS World standard population

#### **Recommended Citation**

Munich Cancer Registry. ICD-10 D39.1: Borderline ovarian tumor - Incidence and Mortality [Internet]. 2016 [updated 2016 Apr 13; cited 2016 Jun 1]. Available from: http://www.tumorregister-muenchen.de/en/facts/base/bD391\_E-ICD-10-D39.1-Borderline-ovarian-tumor-incidence-and-mortality.pdf

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