
Atlas of cancer incidence and mortality
of the
Association of Population-based Cancer Registries in Germany
(GEKID)

„The GEKID Atlas“

Results of the projection for Germany

(data delivery: December of 2011)

Summary

The GEKID Atlas presents new cancer cases (incidence) and the mortality of cancer on the federal state level (Bundesländer) for 25 selected cancer sites or cancer groups respectively as well as for all cancer sites. The incidence rates in the federal states registered by the population-based cancer registries serve as a basis for the atlas. The data are presented as age-standardized rates (per 100,000 persons per year, Europe standard population) and also as absolute numbers. Additionally, a summarized rate and a projected number of cases are presented for Germany.

To avoid misinterpretations of the data please see the separate method paper.

On the basis of the projections an age-standardized cancer rate (Europe standard population) of 459 per 100,000 was calculated for all cancer sites (without non-melanoma skin cancer) for males and of 351 per 100,000 for females. So the age-standardized rates are nearly constant over the last years.

The rates correspond to 256,000 new cancer cases for men and 225,000 new cancer cases for women. Totally, a number of 481,000 new cancer cases were calculated for Germany in 2009. Compared with the last years the absolute incidence rates slightly increased due to the demographic change.

The projected data are used as reference to evaluate and to assess the disease numbers of the several federal states.

Contact:

Association of Population-based Cancer Registries in Germany

Internet: www.gekid.de

Table of contents

1	Cancer rates 2003-2009 in Germany.....	2
2	All cancer sites without non-melanoma skin cancer (C00-C97, D09.0, D41.4 without C44).....	4
3	Oral cavity and pharynx (C00-C14).....	5
4	Oesophagus (C15).....	6
5	Stomach (C16).....	7
6	Colon and rectum (C18-C21).....	8
7	Liver (C22).....	9
8	Pancreas (C25).....	10
9	Larynx (C32).....	11
10	Lung (C33-C34).....	12
11	Malignant melanoma of the skin (C43).....	13
12	Non-melanoma skin cancer (C44).....	14
13	Breast (C50).....	15
14	Cervix (C53).....	16
15	Uterus (Corpus uteri) (C54-C55).....	17
16	Ovaries (C56).....	18
17	Prostate (C61).....	19
18	Testis (C62).....	20
19	Kidney (C64).....	21
20	Bladder (C67, D09.0, D41.4).....	22
21	Brain and nervous system (C70-C72).....	23
22	Thyroid gland (C73).....	24
23	Hodgkin's Lymphoma (C81).....	25
24	Non-Hodgkin-Lymphomas (C82-C85, C96).....	26
25	Immunoproliferative disease and plasmic cell neoplasms (C88-C90).....	27
26	Leukaemias (C91-C95).....	28
27	Leukaemias and lymphomas (C81-C96).....	29

1 Cancer rates 2003-2009 in Germany

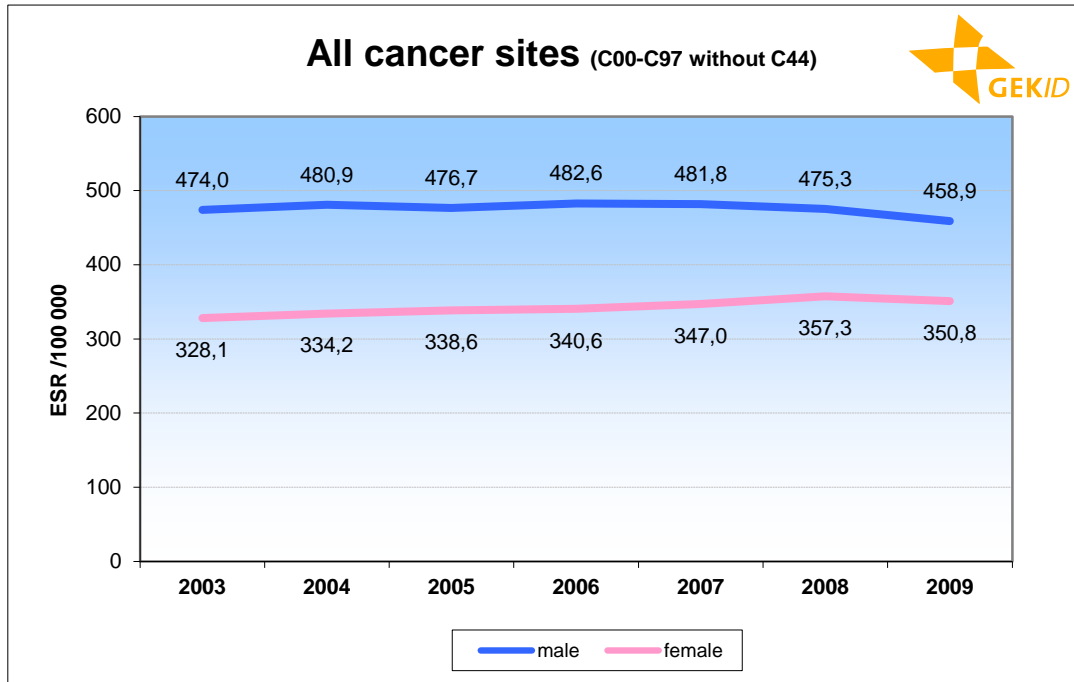
Age-standardized incidence rates (per 100,000, [Europe standard population]) Projection for Germany								
Site (ICD10-Code)	sex	2003	2004	2005	2006	2007	2008	2009
All cancer sites (without non-melanoma skin cancer)	male	474.0	480.9	476.7	482.6	481.8	475.3	458.9
C00-C96, D09.0, D41.4 ohne C44	female	328.1	334.2	338.6	340.6	347.0	357.3	350.8
Oral cavity and pharynx	male	19.7	19.7	19.2	19.5	19.7	19.5	19.5
C00-C14	female	5.3	5.4	5.1	5.3	5.6	5.9	5.7
Oesophagus	male	8.7	9.2	9.5	9.2	9.4	9.1	9.1
C15	female	1.6	1.6	1.9	1.9	1.9	1.9	1.8
Stomach	male	18.6	19.6	19.5	19.3	18.1	18.0	17.4
C16	female	9.9	10.3	9.9	9.4	9.5	9.3	8.7
Colon and rectum	male	65.7	67.8	66.4	65.3	64.9	66.1	61.6
C18-C21	female	42.3	43.2	42.1	41.6	40.6	40.0	38.0
Liver	male	8.4	8.7	9.2	9.3	9.6	9.8	9.6
C22	female	2.7	2.5	2.8	3.0	3.0	3.0	2.9
Pancreas	male	12.4	12.4	13.2	13.2	13.6	13.0	12.7
C25	female	8.1	8.7	9.1	9.5	9.5	9.8	9.4
Larynx	male	6.7	6.9	6.8	6.7	6.1	6.4	6.0
C32	female	0.8	0.7	0.7	0.8	0.7	0.7	0.7
Lung	male	63.8	64.9	64.2	64.8	62.3	61.1	59.2
C33-C34	female	19.6	20.4	21.2	21.8	22.9	23.6	23.5
Malignant melanoma of the skin	male	13.5	14.1	14.5	14.2	14.4	17.5	17.4
C43	female	14.2	13.7	14.1	13.9	14.3	16.2	16.0
Non-melanoma skin cancer	male	72.1	78.9	82.5	86.5	88.8	101.7	108.2
C44	female	50.3	54.5	57.0	60.6	63.2	73.6	77.8
Breast	male	0.9	0.9	0.9	0.9	0.9	1.0	1.0
C50	female	105.1	106.2	108.3	110.3	113.9	123.8	123.8
Cervix C53	male	9.7	10.0	9.4	9.7	9.8	9.4	9.6
Uterus (Corpus uteri) C54-C55	female	17.8	18.1	18.4	17.3	18.3	17.7	17.8
Ovaries C56	male	14.3	14.3	13.5	13.2	13.3	12.7	11.5
Prostate C61	female	121.7	115.6	113.0	117.5	121.7	113.0	107.8
Testis C62	male	9.1	10.0	9.5	9.9	10.1	9.6	9.7
Kidney	female	16.7	17.2	17.2	17.3	17.3	17.0	17.0
C64	male	8.0	8.1	8.1	8.5	8.7	8.7	8.6
Bladder	female	35.9	36.9	36.3	36.3	35.5	35.9	35.2
C67, D09.0, D41.4	male	8.8	8.8	9.2	9.2	9.2	9.3	8.9
Brain and nervous system	female	7.1	7.0	7.5	7.3	7.4	7.9	7.4
C70-C72	male	5.0	5.0	5.2	5.3	5.4	5.5	4.8
Thyroid gland	female	2.6	3.0	2.9	3.2	3.5	3.7	3.7
C73	male	6.7	7.0	7.4	7.6	8.5	9.3	9.3
Hodgkin's lymphoma	female	2.4	2.7	2.5	2.5	2.7	2.5	2.6
C81	male	1.9	2.0	2.1	2.0	2.0	1.9	2.0
Non-Hodgkin lymphomas	female	12.9	14.4	14.1	14.8	13.9	14.2	14.3
C82-C85, C96	male	9.9	10.3	10.1	10.0	10.2	9.6	9.5
Immunoprol. disease, plasma cell neoplasms	female	5.3	5.7	5.8	5.5	5.5	5.6	5.4
C88-C90	male	3.7	3.7	4.0	4.0	4.0	3.7	3.5
Leukaemias	female	12.4	12.5	13.1	13.5	12.5	12.2	11.6
C91-C95	male	7.9	8.2	8.6	8.0	8.2	7.7	7.4
Lymphomas & Leukaemias	female	33.4	35.7	35.9	36.7	35.1	35.1	34.4
C81-C96	male	23.5	24.2	24.9	24.1	24.3	22.9	22.5

Data source: data pool of the epidemiological cancer registries of GEKID, www.gekid.de

Numbers of new cases of neoplasms– Projection for Germany								
Site (ICD10-Code)	sex	2003	2004	2005	2006	2007	2008	2009
All cancer sites (without non-melanoma skin cancer) C00-C96, D09.0, D41.4 ohne C44	male	234,848	243,390	246,268	254,678	259,509	260,534	256,142
	female	201,089	207,361	212,794	216,445	221,154	228,056	224,660
Oral cavity and pharynx C00-C14	male	9,096	9,245	9,163	9,416	9,701	9,686	9,849
	female	2,887	2,989	2,891	3,029	3,262	3,463	3,344
Oesophagus C15	male	4,218	4,535	4,769	4,671	4,908	4,820	4,897
	female	1,033	1,065	1,204	1,268	1,265	1,265	1,209
Stomach C16	male	9,240	9,959	10,143	10,336	9,918	10,083	9,949
	female	7,190	7,478	7,430	7,255	7,178	7,080	6,719
Colon and rectum C18-C21	male	32,914	34,738	34,732	35,083	35,617	37,027	35,219
	female	29,853	31,088	30,862	30,817	30,455	30,457	29,279
Liver C22	male	4,178	4,453	4,763	4,963	5,142	5,448	5,457
	female	1,920	1,841	2,116	2,324	2,227	2,286	2,233
Pancreas C25	male	6,075	6,318	6,850	7,000	7,403	7,192	7,190
	female	5,761	6,414	6,755	7,087	7,252	7,527	7,172
Larynx C32	male	3,219	3,379	3,401	3,388	3,142	3,351	3,191
	female	414	386	358	450	410	393	414
Lung C33-C34	male	32,021	33,346	33,694	34,609	34,048	34,028	33,623
	female	11,834	12,363	13,057	13,615	14,322	14,985	15,098
Malignant melanoma of the skin C43	male	6,456	6,902	7,171	7,166	7,389	9,146	9,250
	female	7,429	7,333	7,605	7,590	7,769	8,898	8,725
Non-melanoma skin cancer C44	male	35,960	40,398	43,562	46,877	49,525	58,164	63,543
	female	33,950	37,265	39,615	42,492	44,653	52,661	55,655
Breast C50	male	437	483	487	482	522	521	540
	female	58,640	59,900	62,065	63,742	66,165	71,644	71,874
Cervix C53	male	5,022	5,135	4,820	4,993	5,000	4,807	4,845
Uterus (Corpus uteri) C54-C55	female	11,036	11,404	11,621	11,070	11,710	11,523	11,561
Ovaries C56	male	8,653	8,690	8,327	8,182	8,395	8,029	7,428
Prostate C61	female	62,277	60,662	60,747	64,474	68,124	64,556	62,528
Testis C62	male	3,946	4,268	4,011	4,164	4,189	3,962	3,991
Kidney C64	female	8,207	8,586	8,738	8,979	9,210	9,258	9,341
	male	5,046	5,237	5,312	5,574	5,851	5,824	5,816
Bladder C67, D09.0, D41.4	female	17,940	18,984	19,203	19,724	19,820	20,403	20,573
	male	6,484	6,536	6,867	6,944	6,899	7,136	6,853
Brain and nervous system C70-C72	female	3,293	3,275	3,539	3,541	3,604	3,888	3,677
	male	2,777	2,772	2,842	3,015	3,018	3,051	2,763
Thyroid gland C73	female	1,213	1,362	1,355	1,517	1,662	1,742	1,779
	male	3,272	3,388	3,627	3,741	4,162	4,537	4,487
Hodgkin's lymphoma C81	female	1,013	1,170	1,110	1,069	1,153	1,084	1,123
	male	852	856	942	866	843	822	858
Non-Hodgkin lymphomas C82-C85, C96	female	6,245	7,051	7,045	7,611	7,251	7,515	7,793
	male	6,223	6,487	6,505	6,546	6,677	6,417	6,435
Immunoprol. disease, plasma cell neoplasms C88-C90	female	2,626	2,922	3,045	2,944	3,035	3,147	3,181
	male	2,563	2,548	2,756	2,940	2,925	2,783	2,694
Leukaemias C91-C95	female	5,893	6,032	6,381	6,653	6,334	6,260	6,061
	male	4,886	5,038	5,331	5,111	5,257	4,870	4,764
Lymphomas & Leukaemias C81-C96	female	15,906	17,354	17,760	18,520	18,009	18,285	18,461
	male	14,553	14,964	15,545	15,440	15,694	14,933	14,780

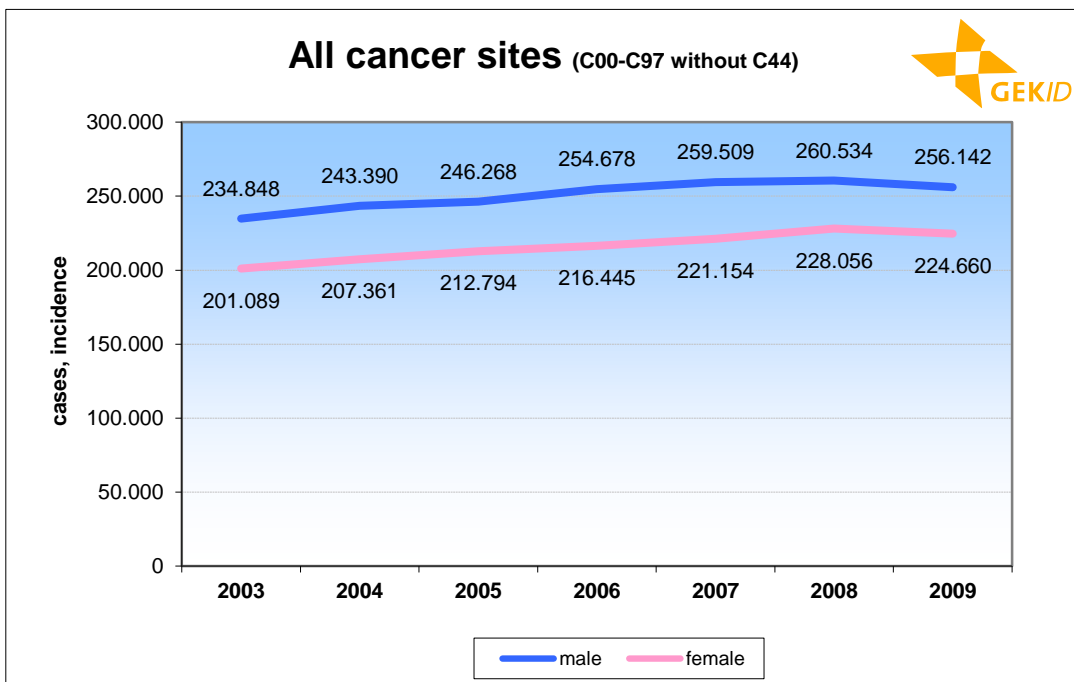
2 All cancer sites without non-melanoma skin cancer (C00-C97, D09.0, D41.4 without C44)

Age-standardized incidence rate (Projection for Germany)



ESR = age-standardized rate with the Europe standard population

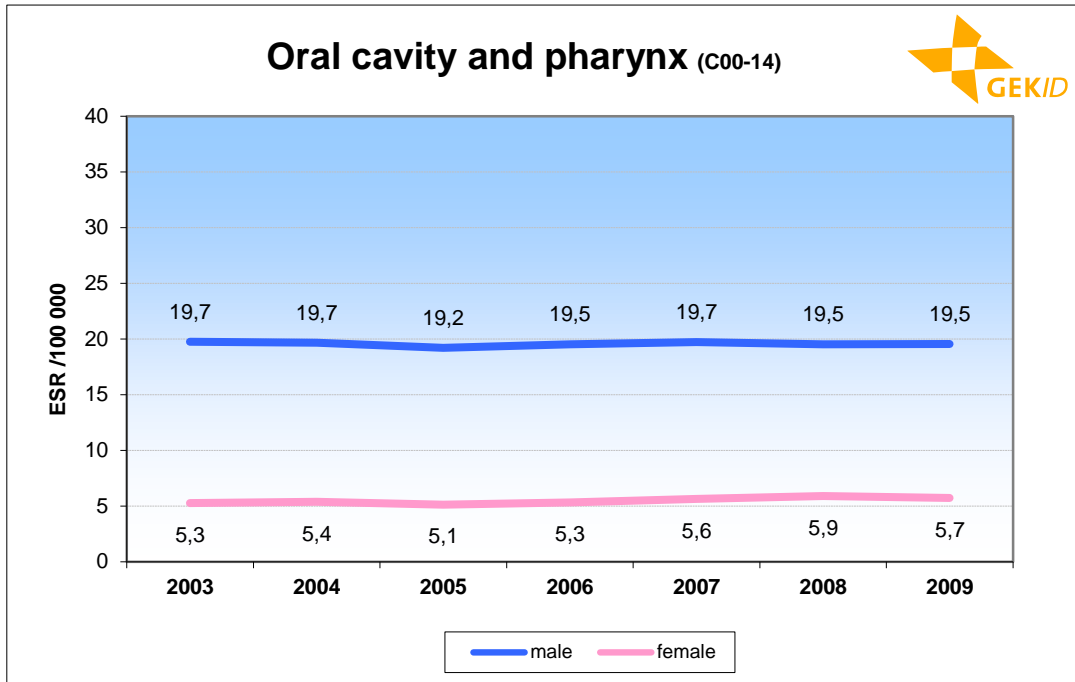
Number of new cases (Projection for Germany)



Data source: data pool of the epidemiological cancer registries of GEKID, www.gekid.de

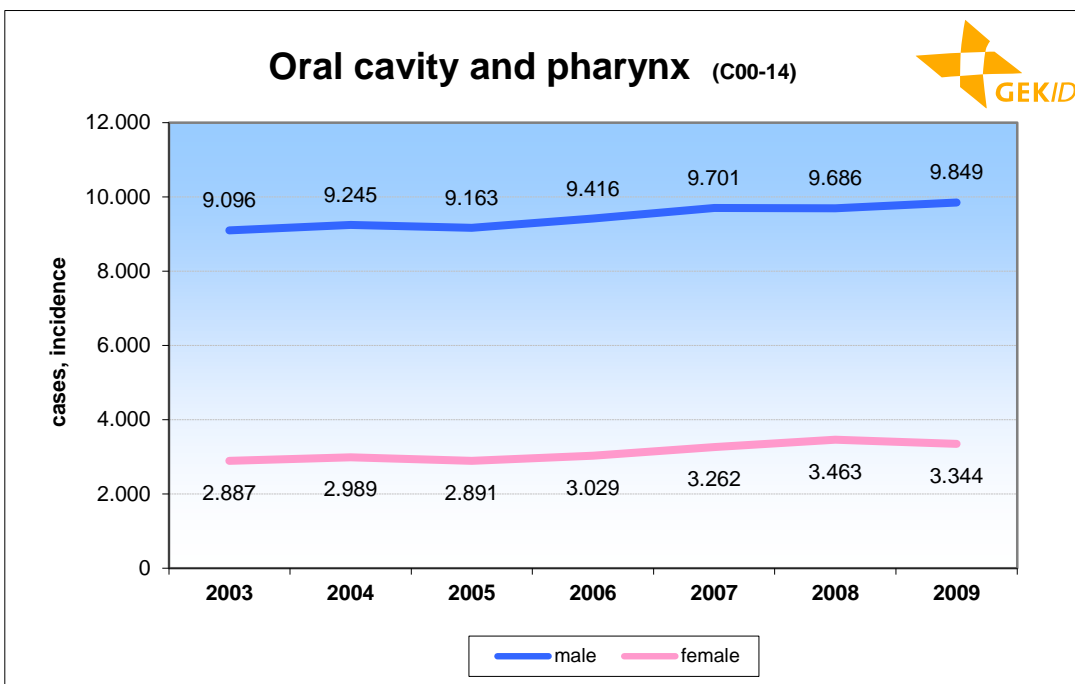
3 Oral cavity and pharynx (C00-C14)

Age-standardized incidence rate (Projection for Germany)



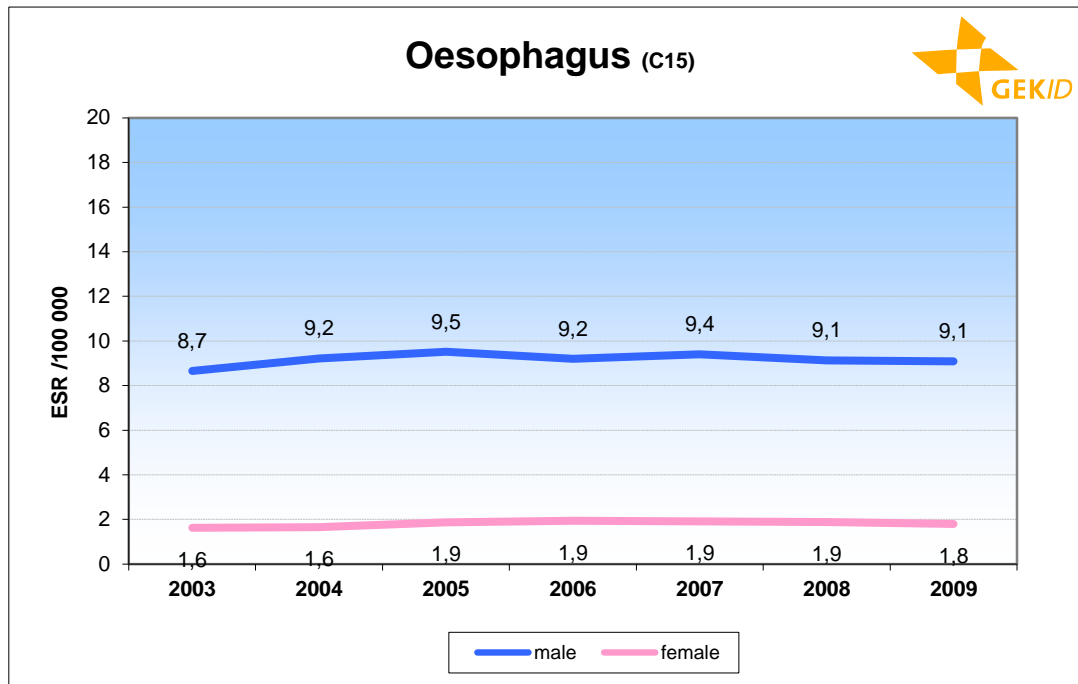
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



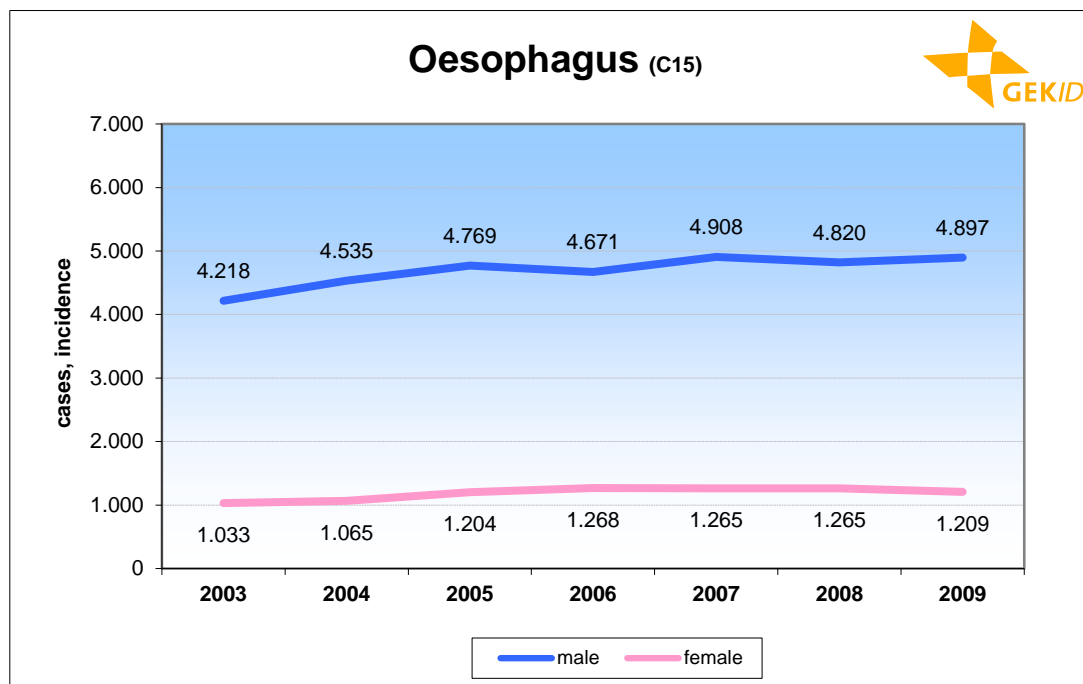
4 Oesophagus (C15)

Age-standardized incidence rate (Projection for Germany)



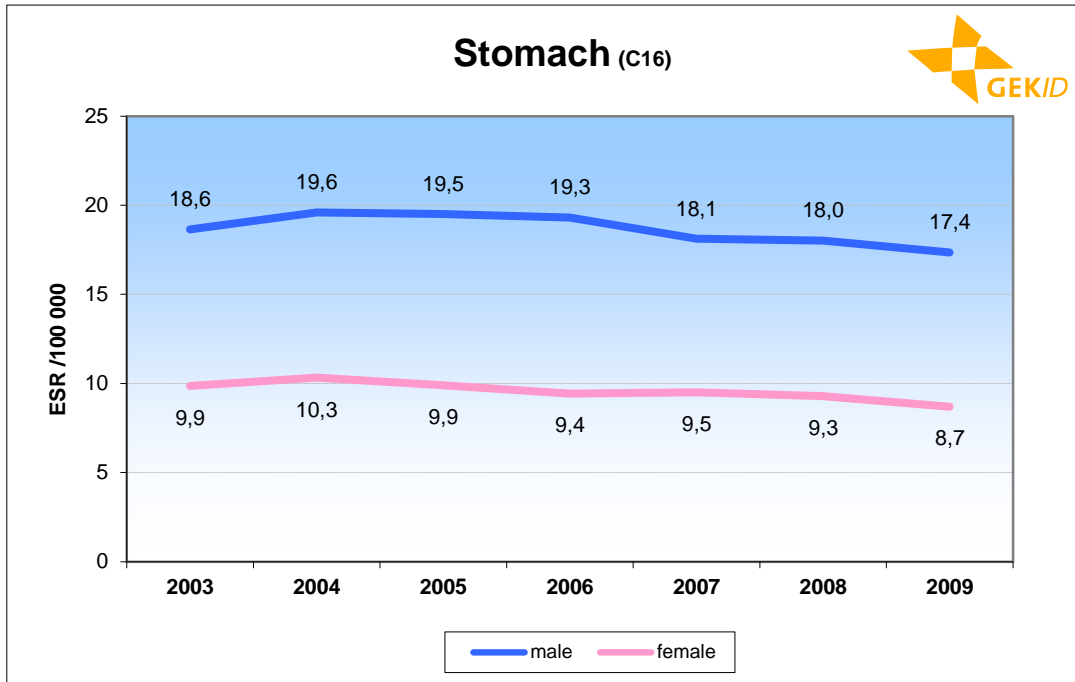
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



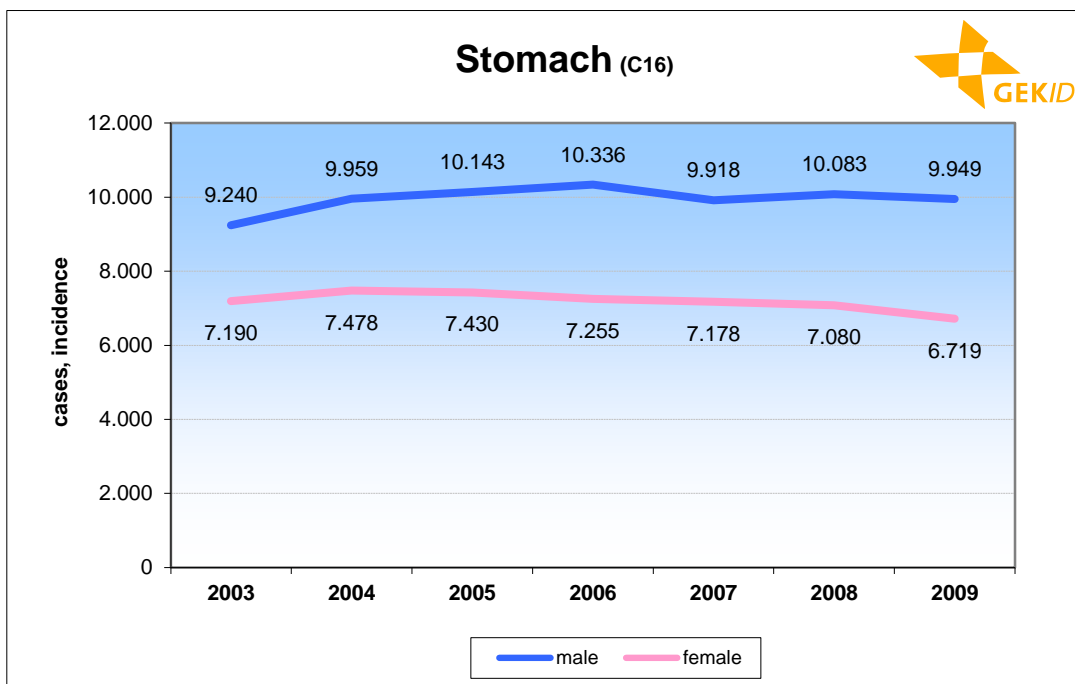
5 Stomach (C16)

Age-standardized incidence rate (Projection for Germany)



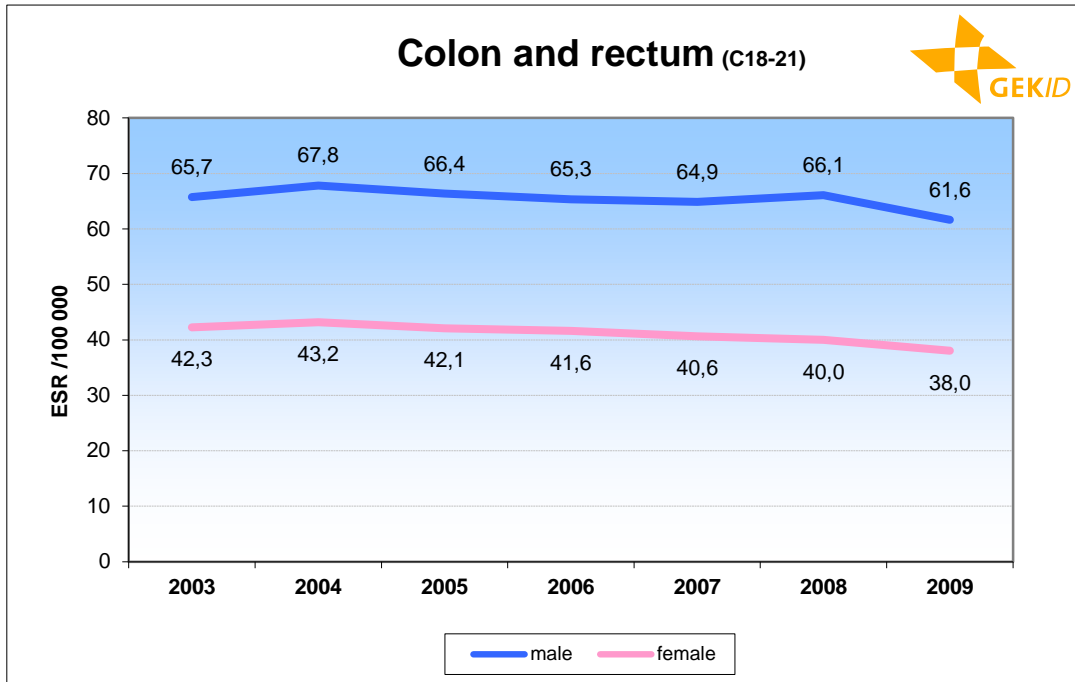
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



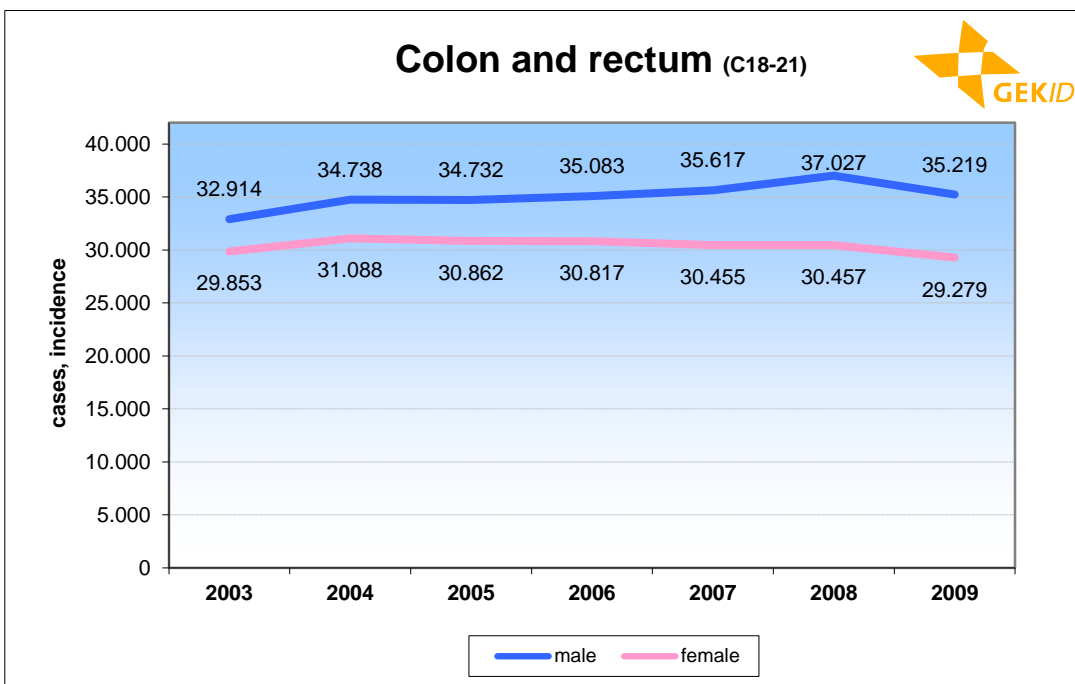
6 Colon and rectum (C18-C21)

Age-standardized incidence rate (Projection for Germany)



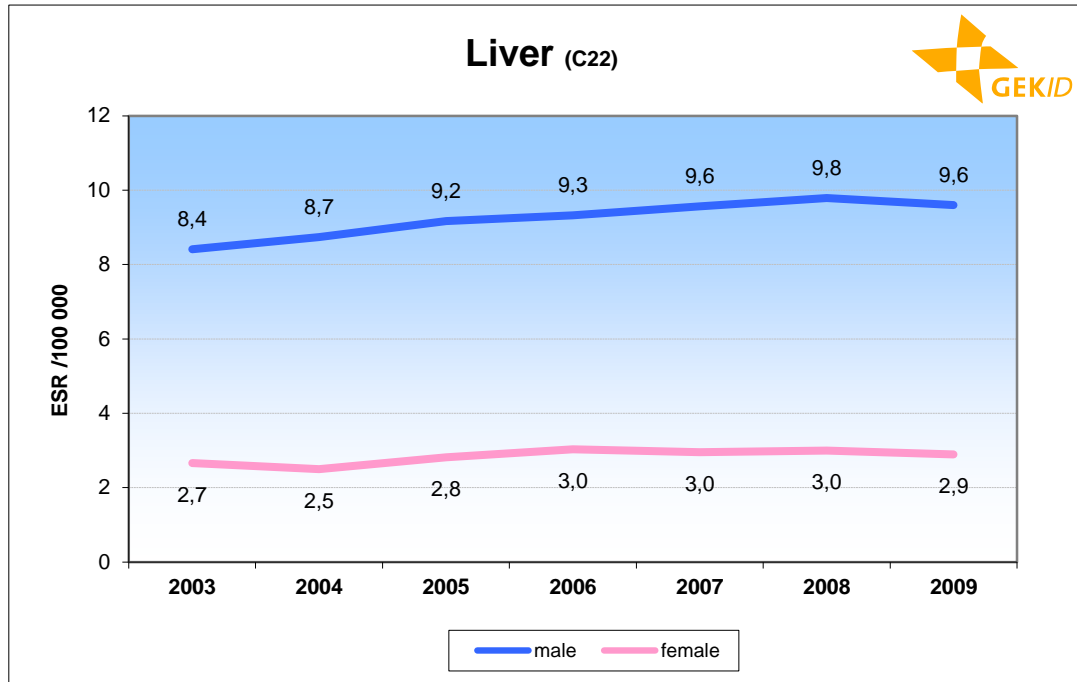
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



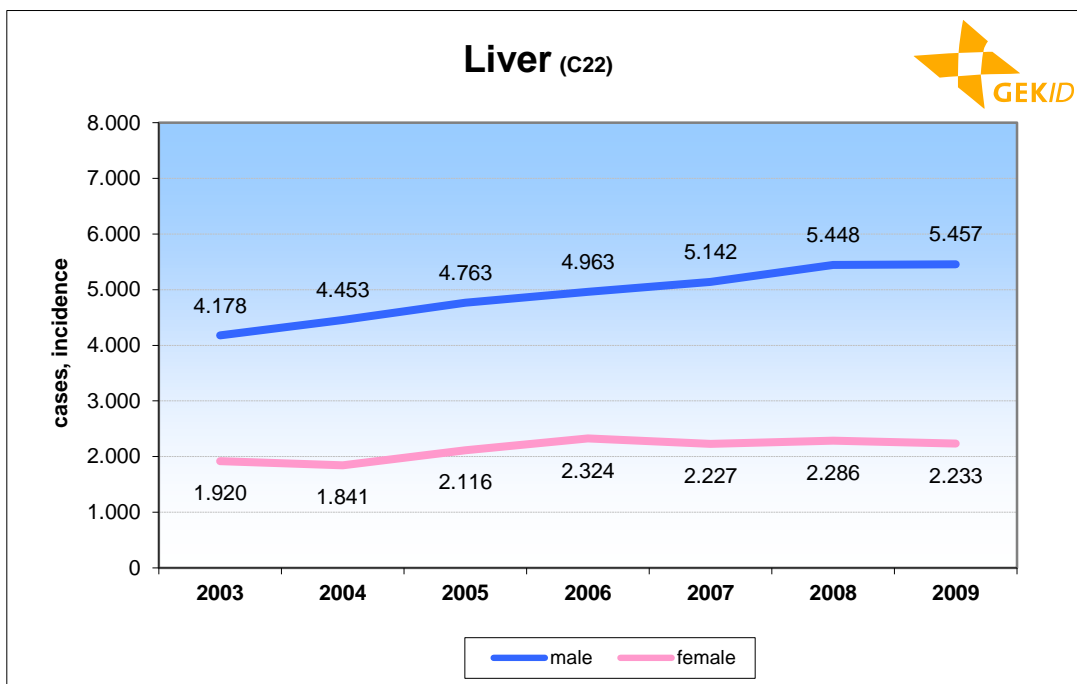
7 Liver (C22)

Age-standardized incidence rate (Projection for Germany)



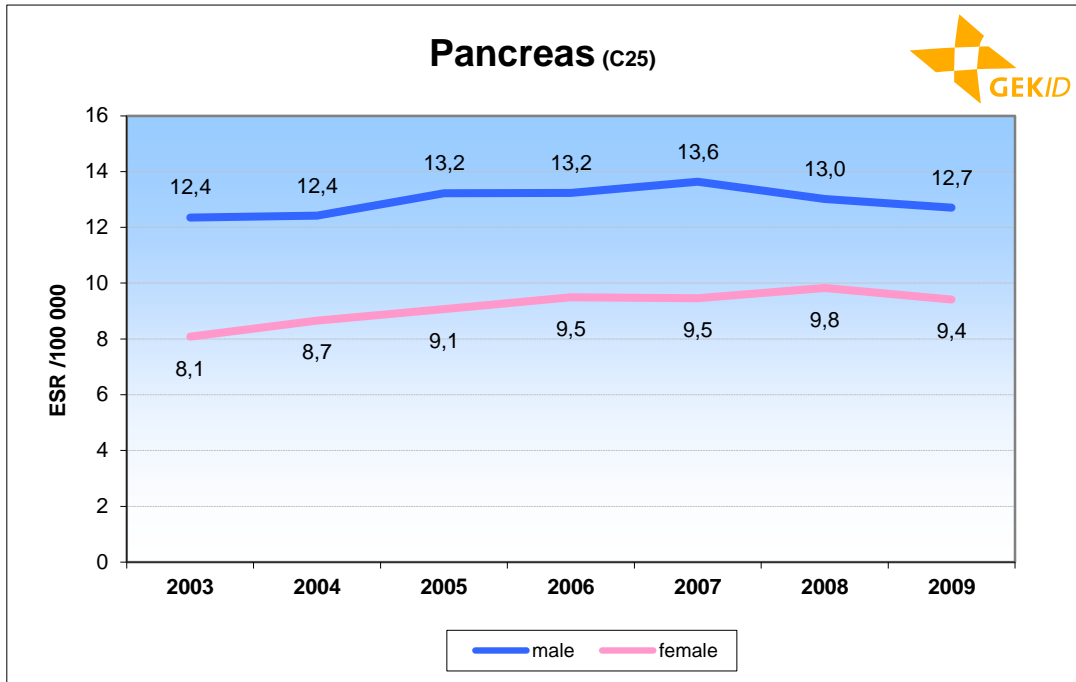
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



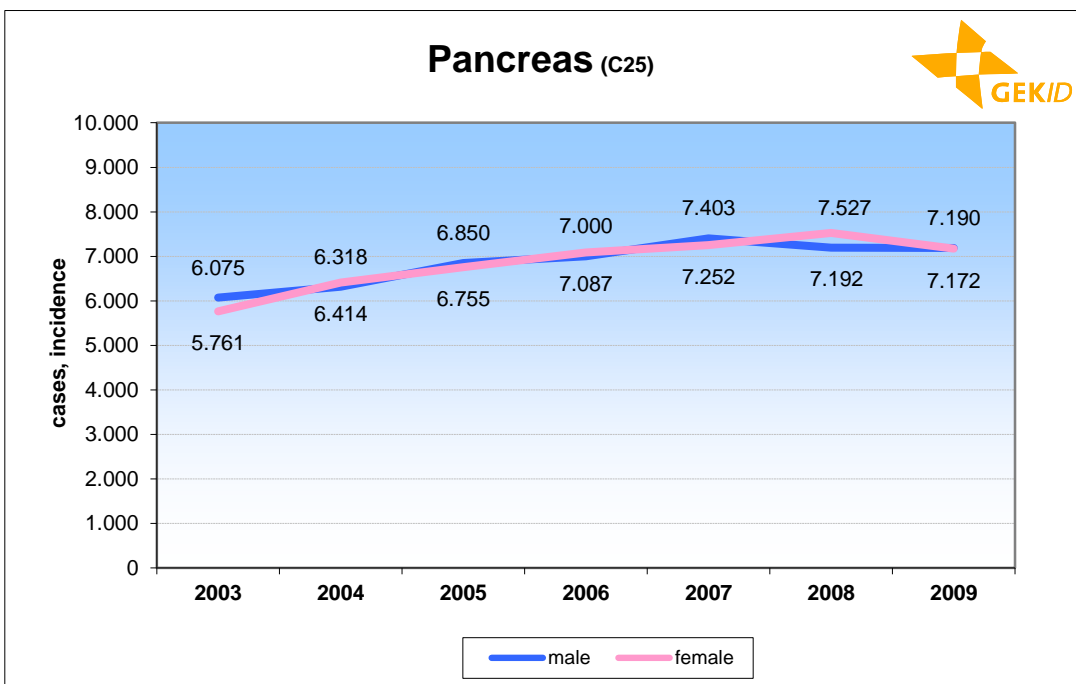
8 Pancreas (C25)

Age-standardized incidence rate (Projection for Germany)



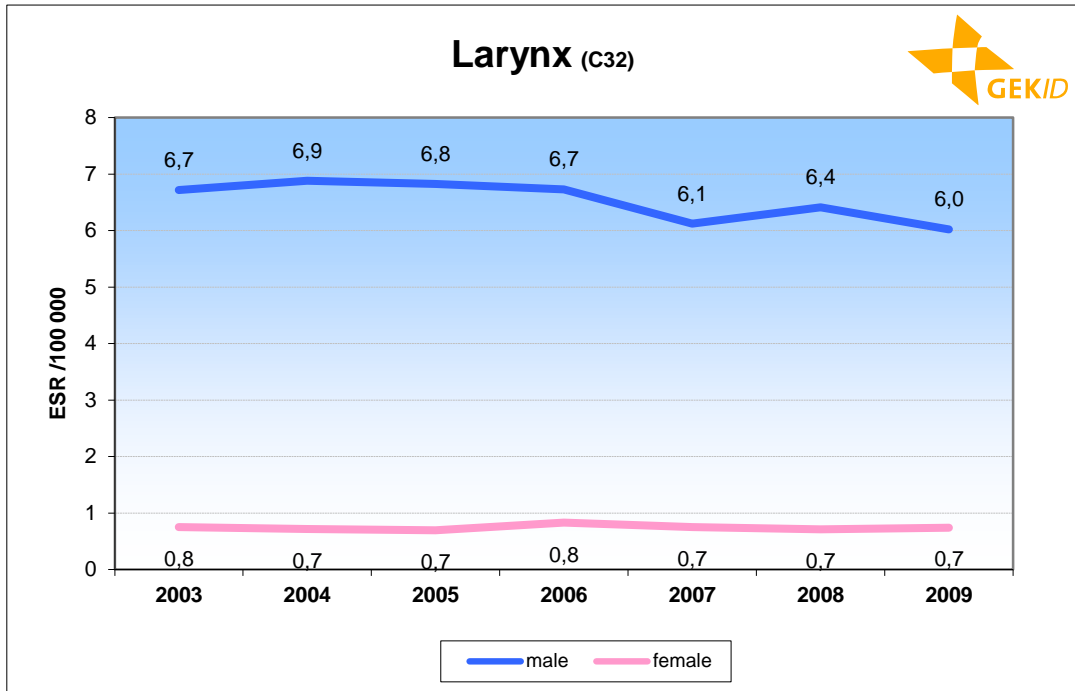
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



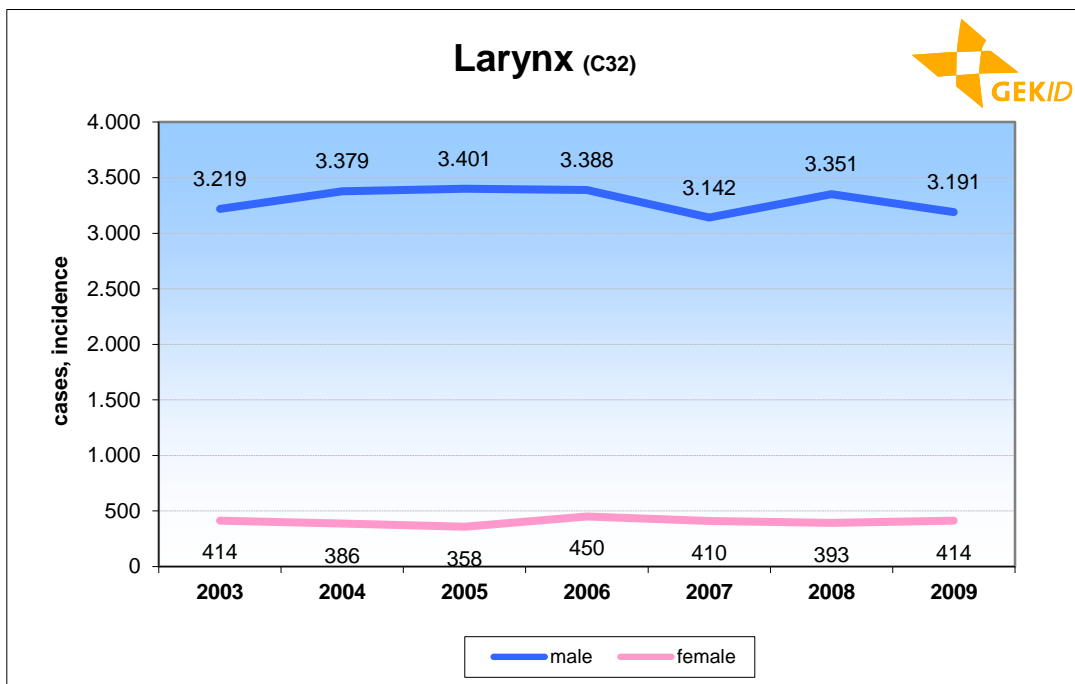
9 Larynx (C32)

Age-standardized incidence rate (Projection for Germany)



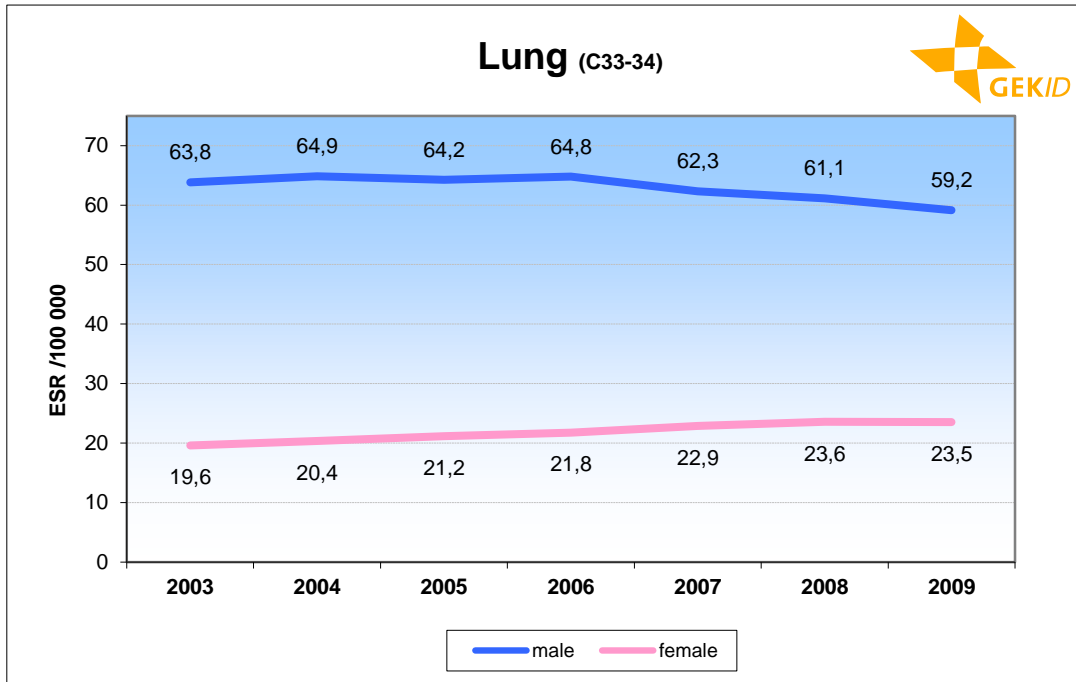
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



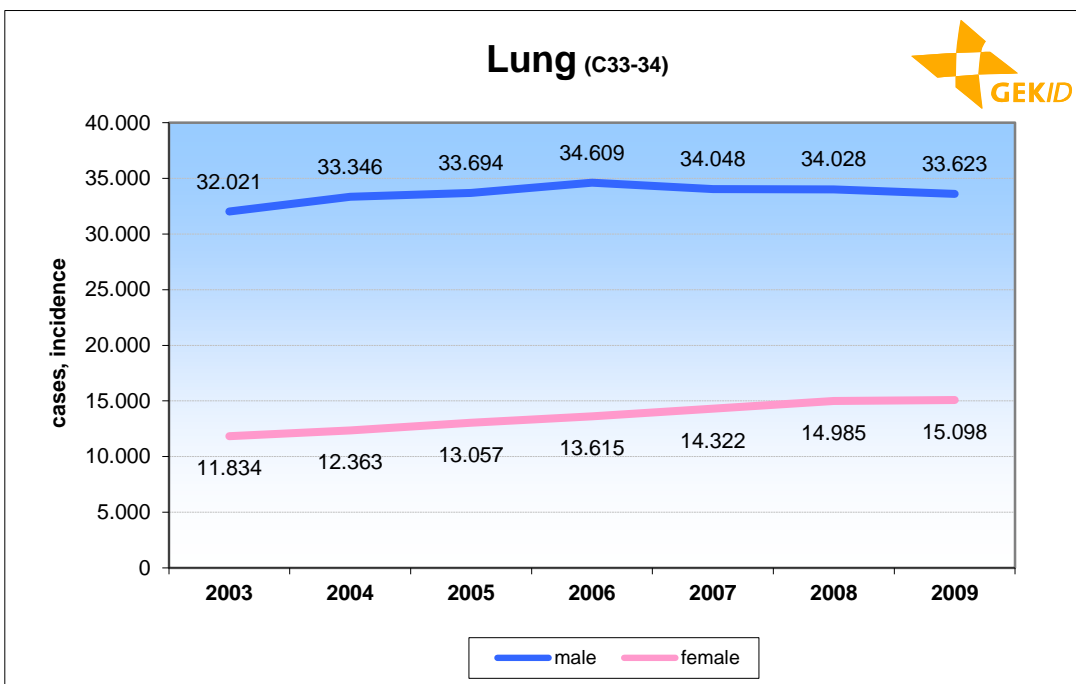
10 Lung (C33-C34)

Age-standardized incidence rate (Projection for Germany)



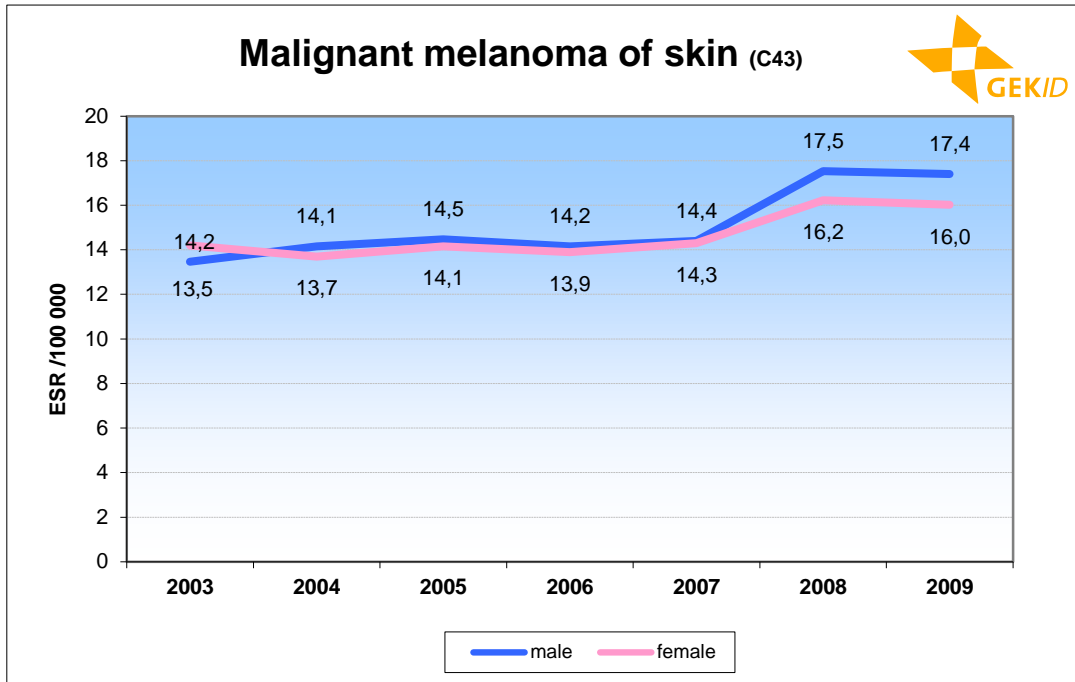
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



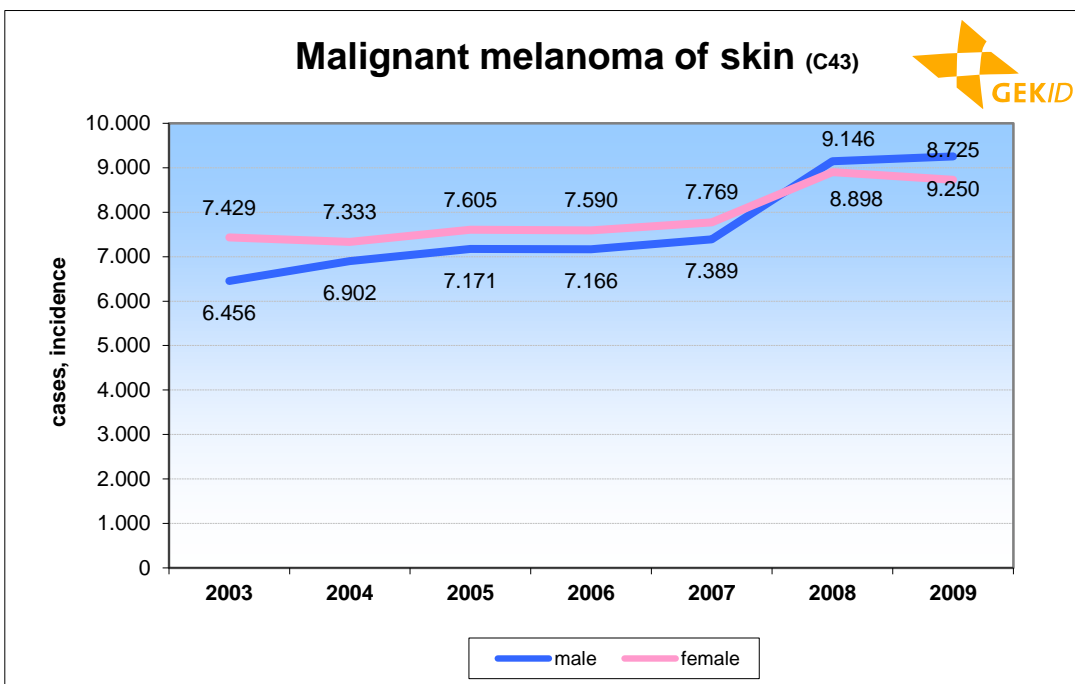
11 Malignant melanoma of the skin (C43)

Age-standardized incidence rate (Projection for Germany)



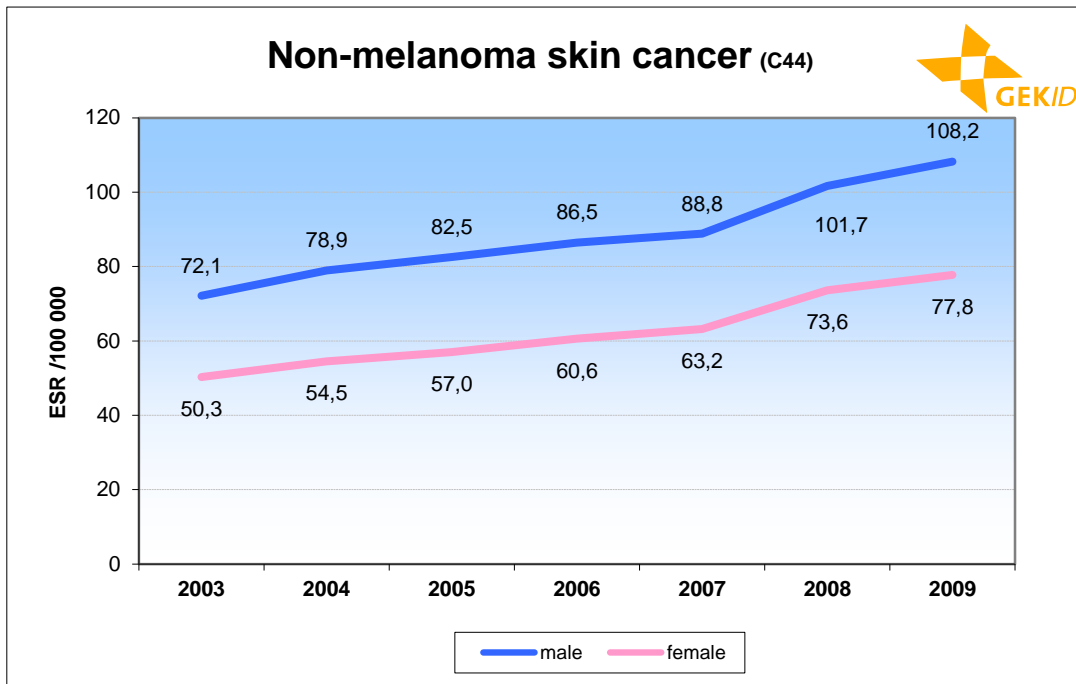
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



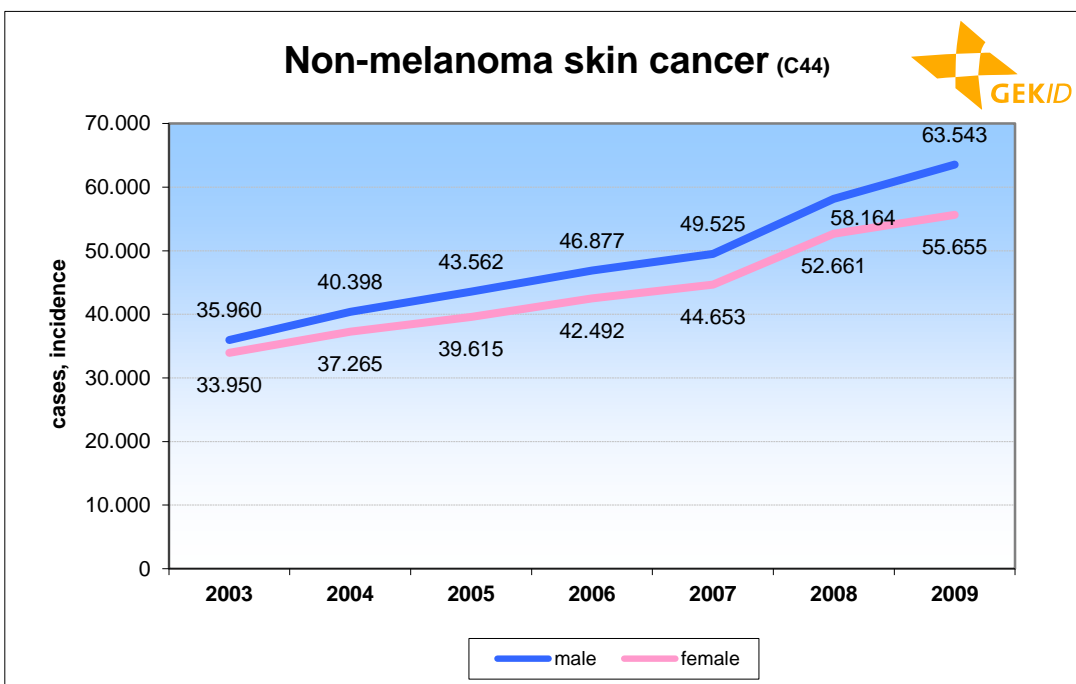
12 Non-melanoma skin cancer (C44)

Age-standardized incidence rate (Projection for Germany)



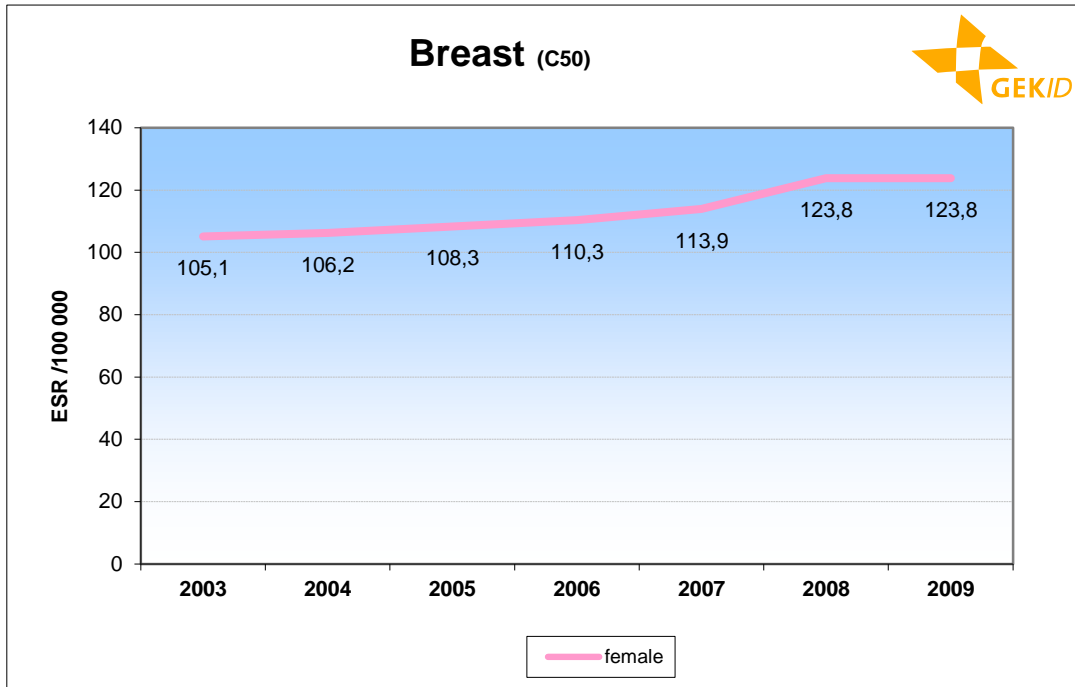
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



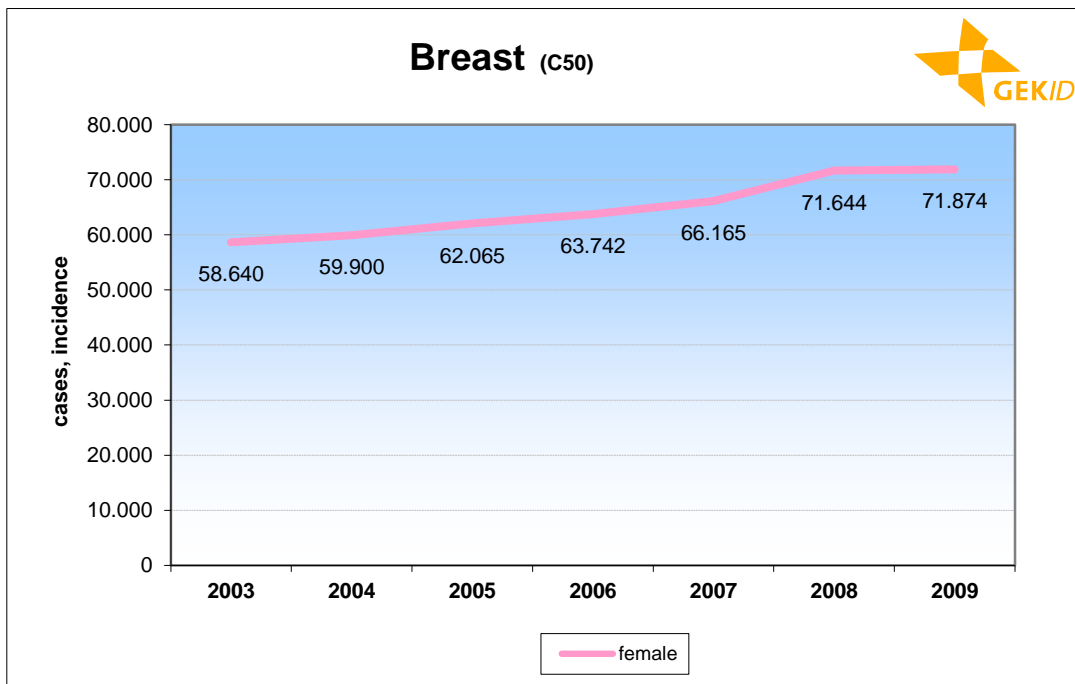
13 Breast (C50)

Age-standardized incidence rate (Projection for Germany)



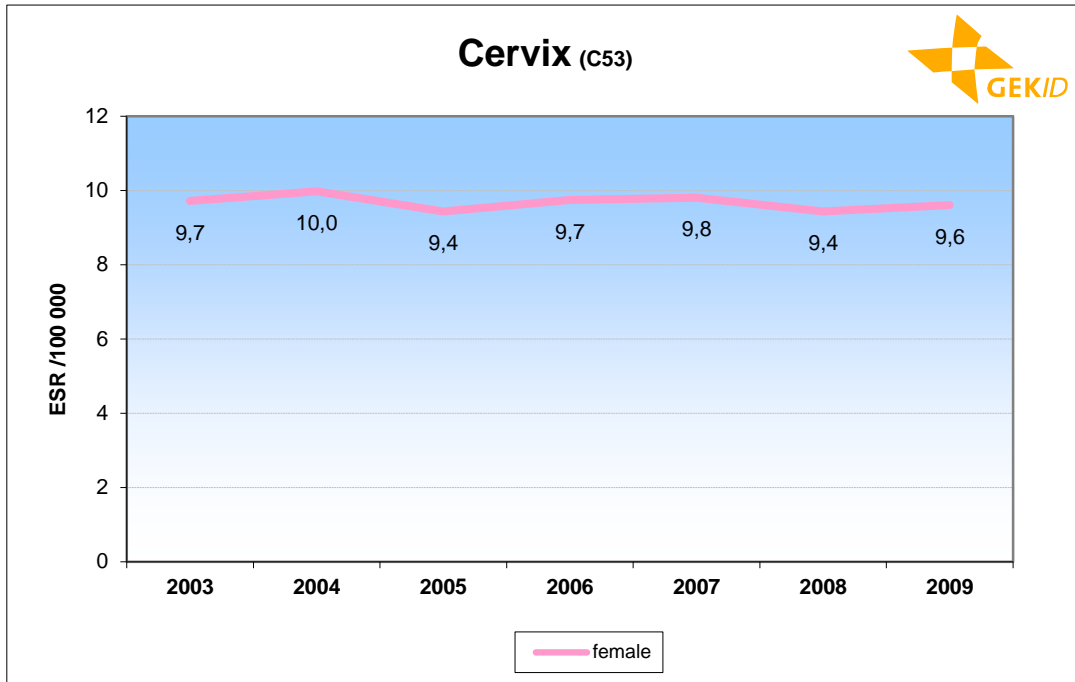
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



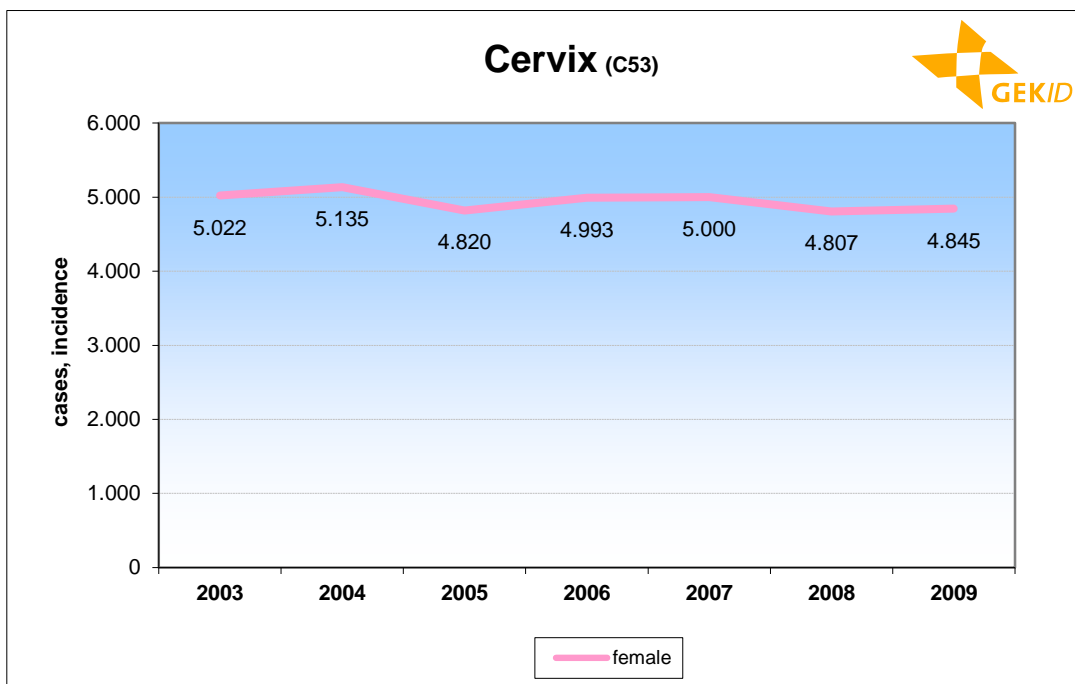
14 Cervix (C53)

Age-standardized incidence rate (Projection for Germany)



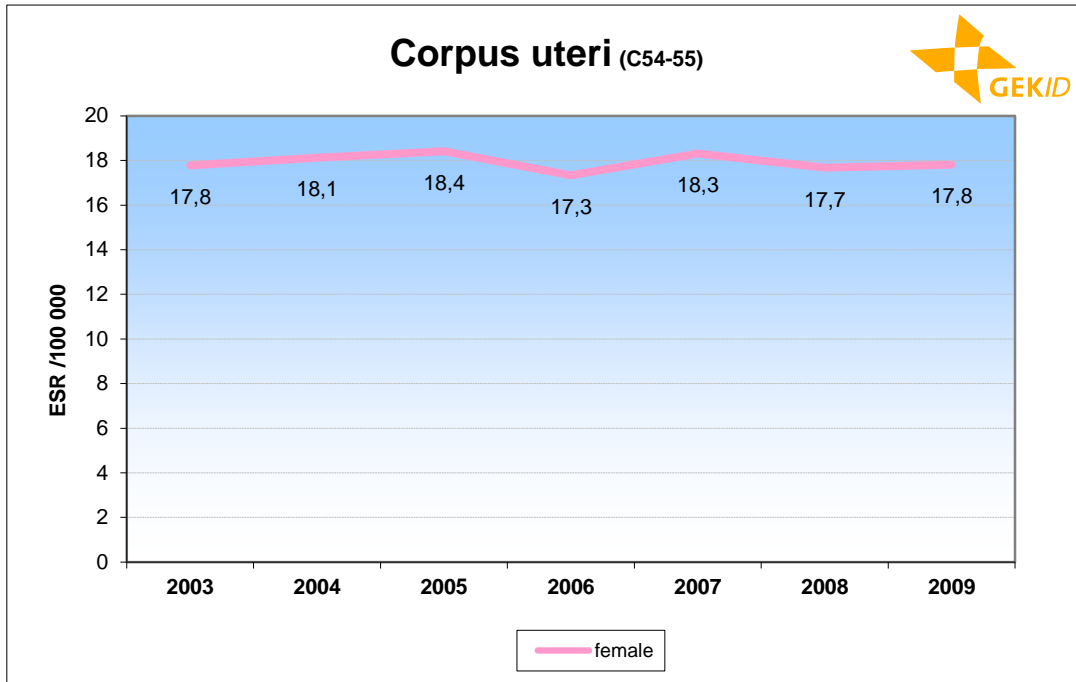
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



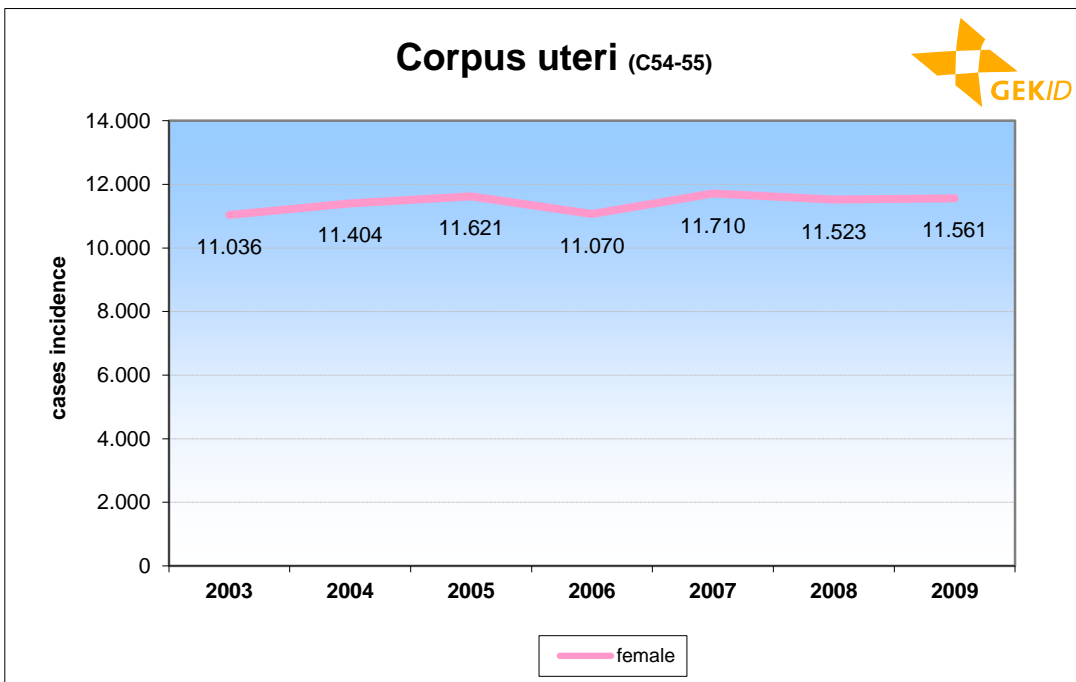
15 Uterus (Corpus uteri) (C54-C55)

Age-standardized incidence rate (Projection for Germany)



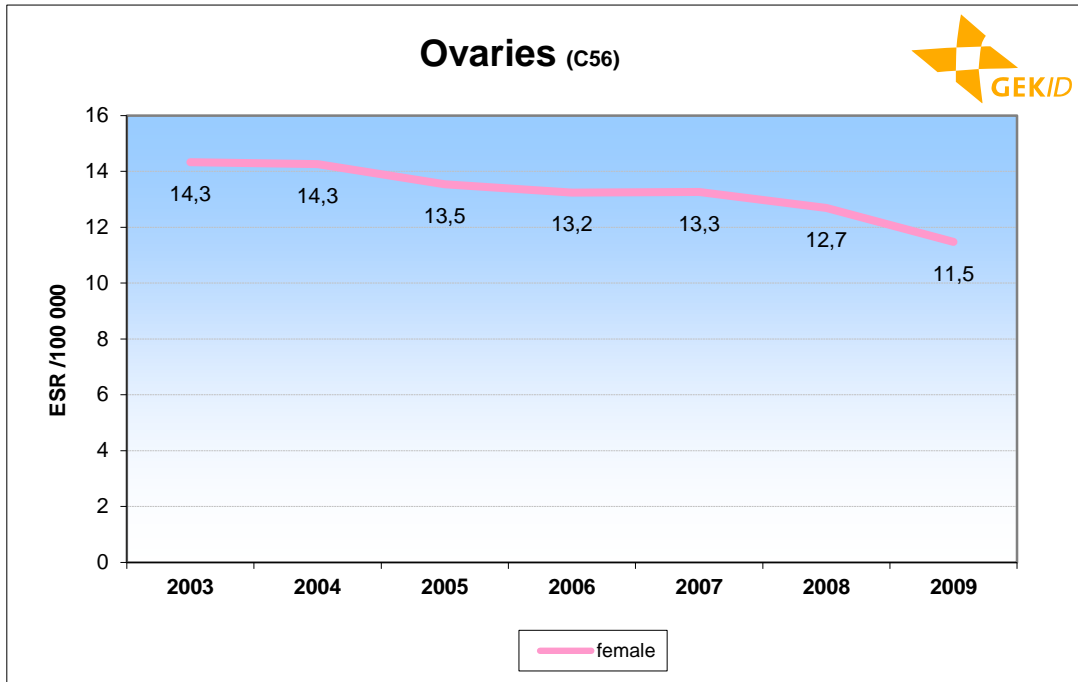
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



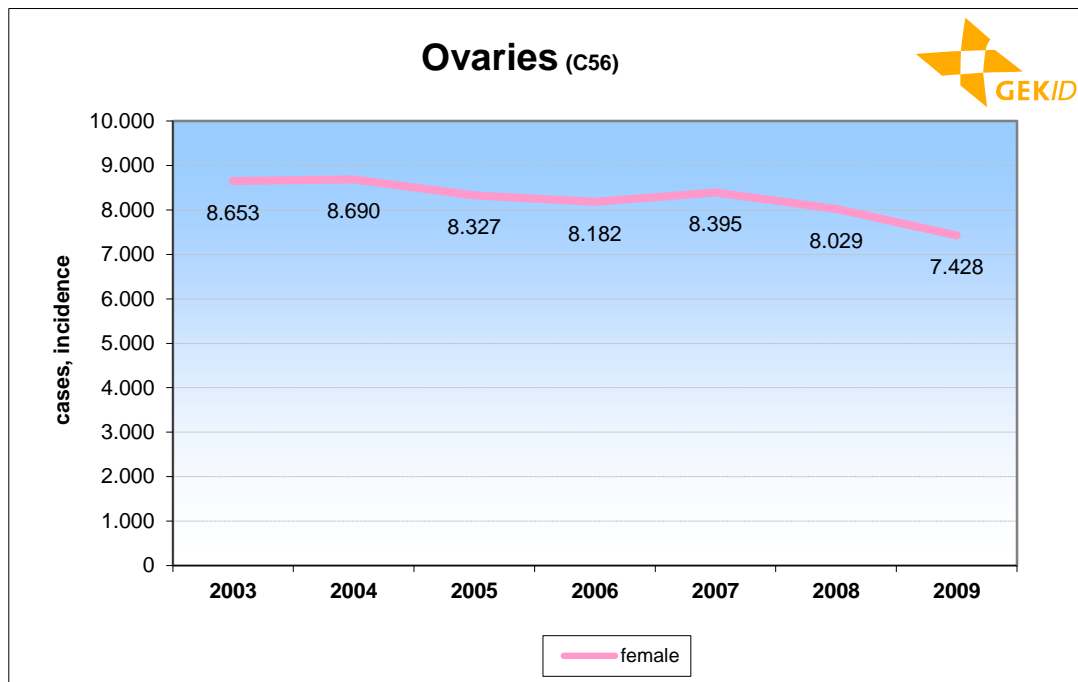
16 Ovaries (C56)

Age-standardized incidence rate (Projection for Germany)



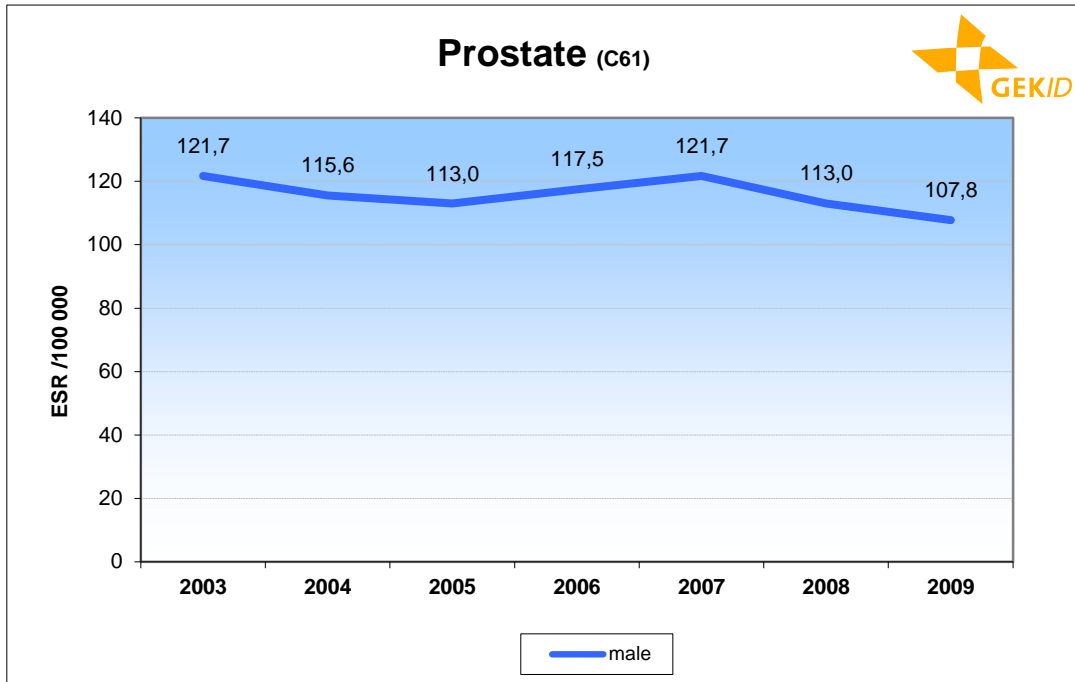
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



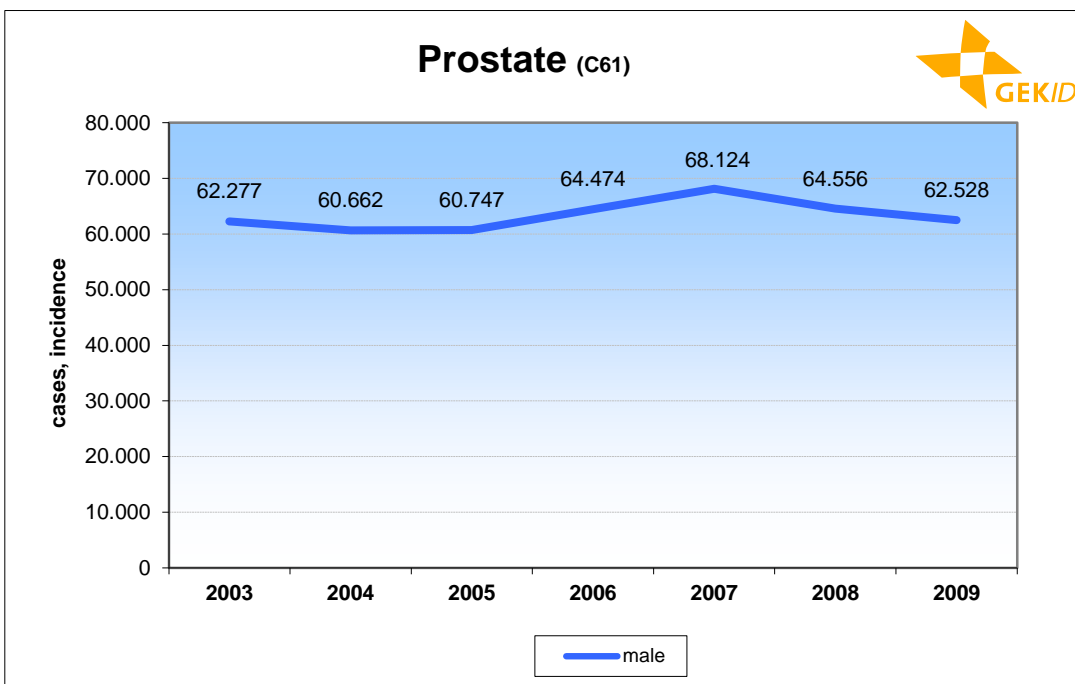
17 Prostate (C61)

Age-standardized incidence rate (Projection for Germany)



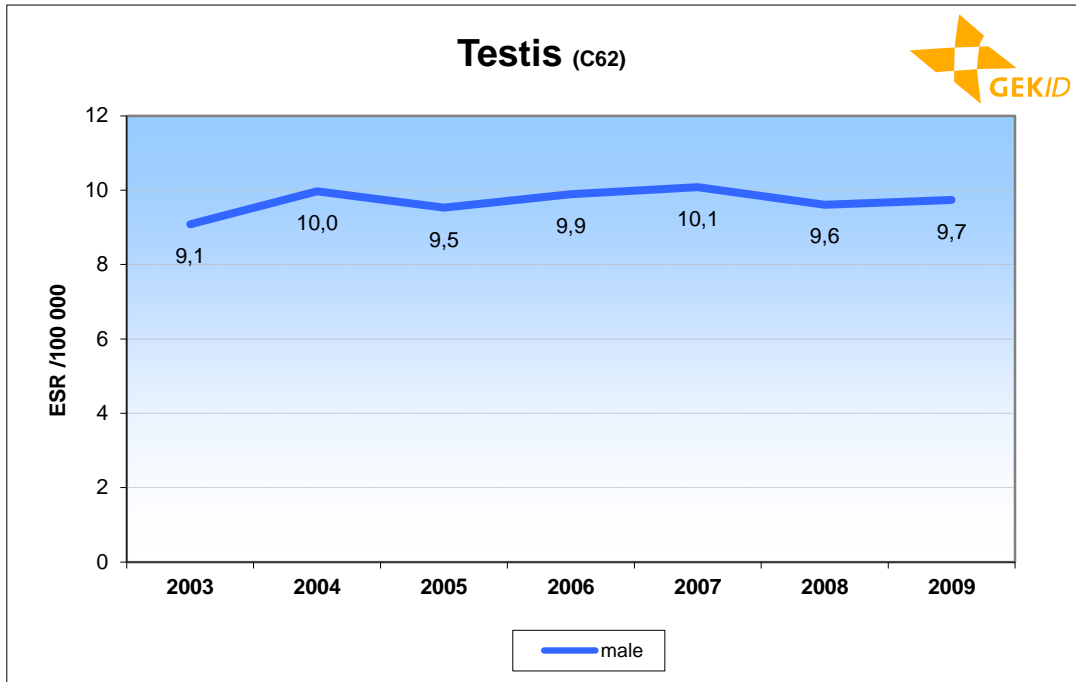
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



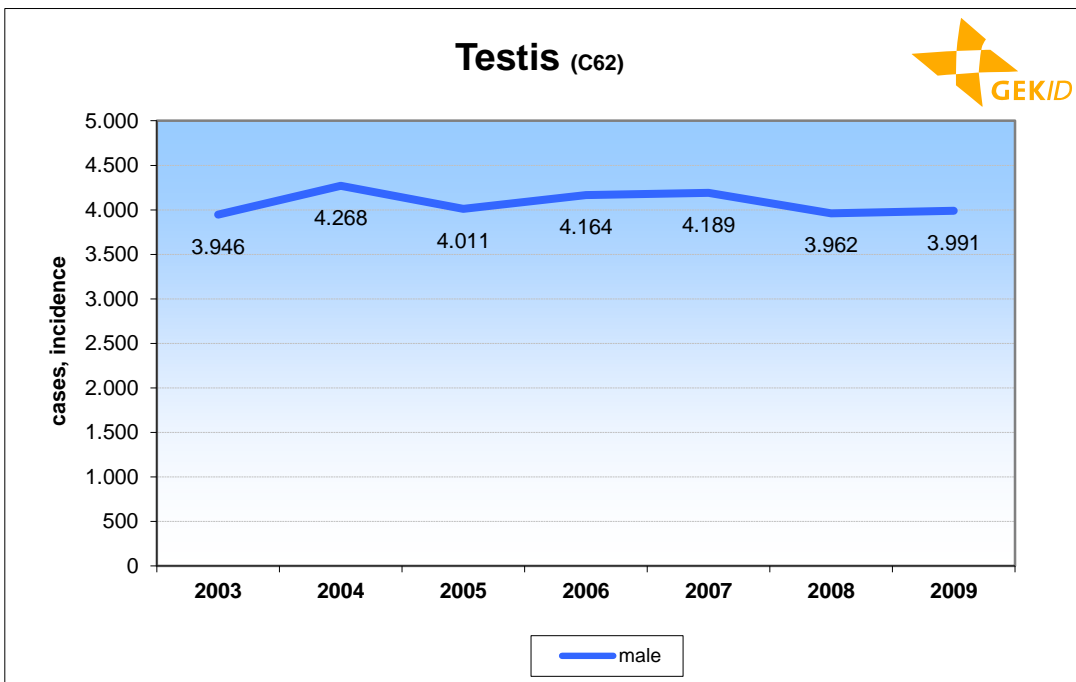
18 Testis (C62)

Age-standardized incidence rate (Projection for Germany)



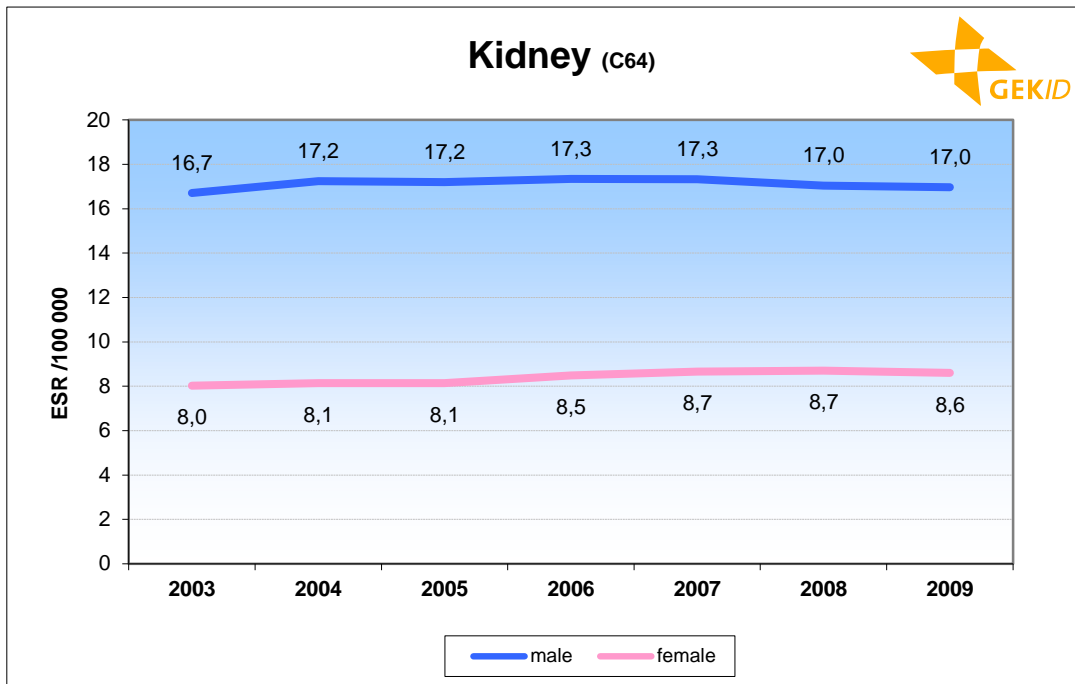
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



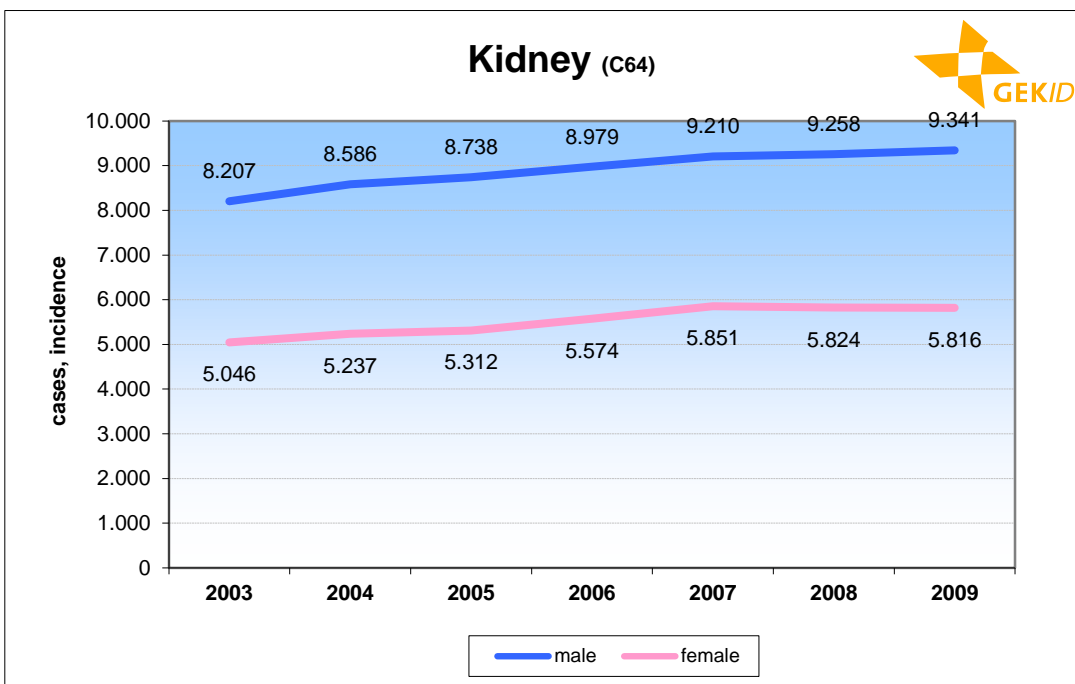
19 Kidney (C64)

Age-standardized incidence rate (Projection for Germany)



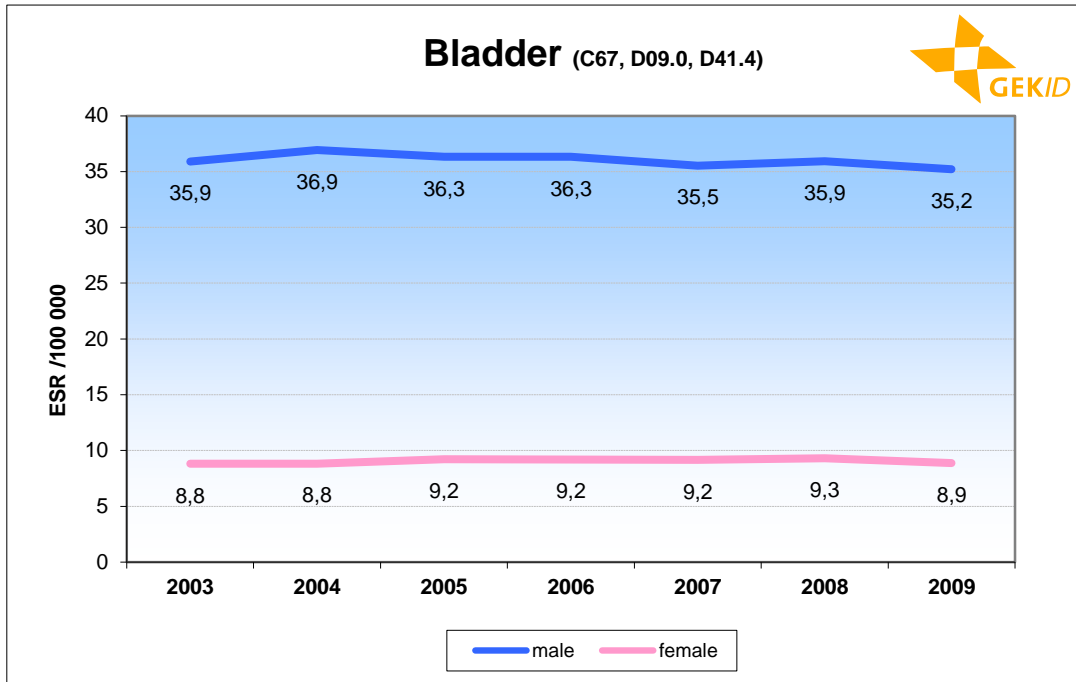
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



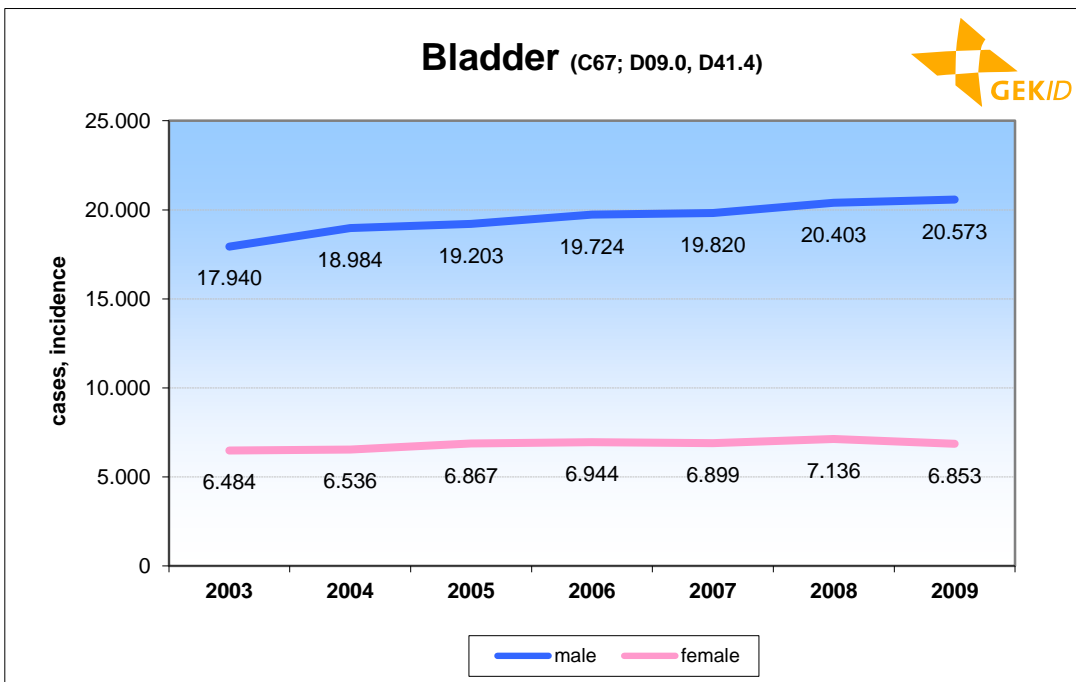
20 Bladder (C67, D09.0, D41.4)

Age-standardized incidence rate (Projection for Germany)



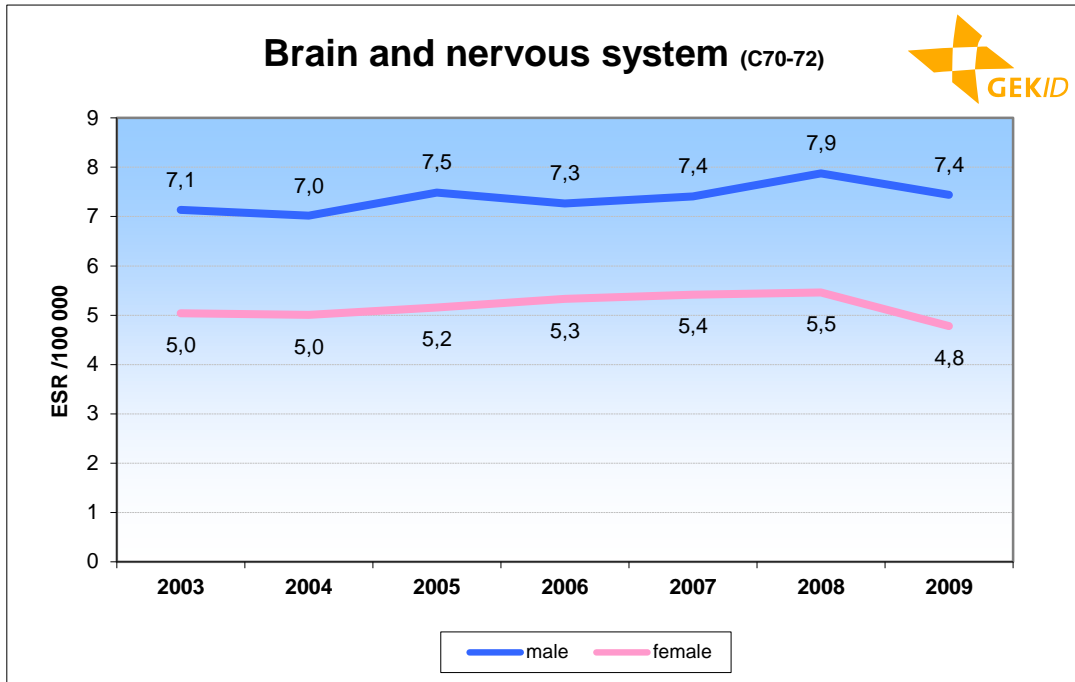
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



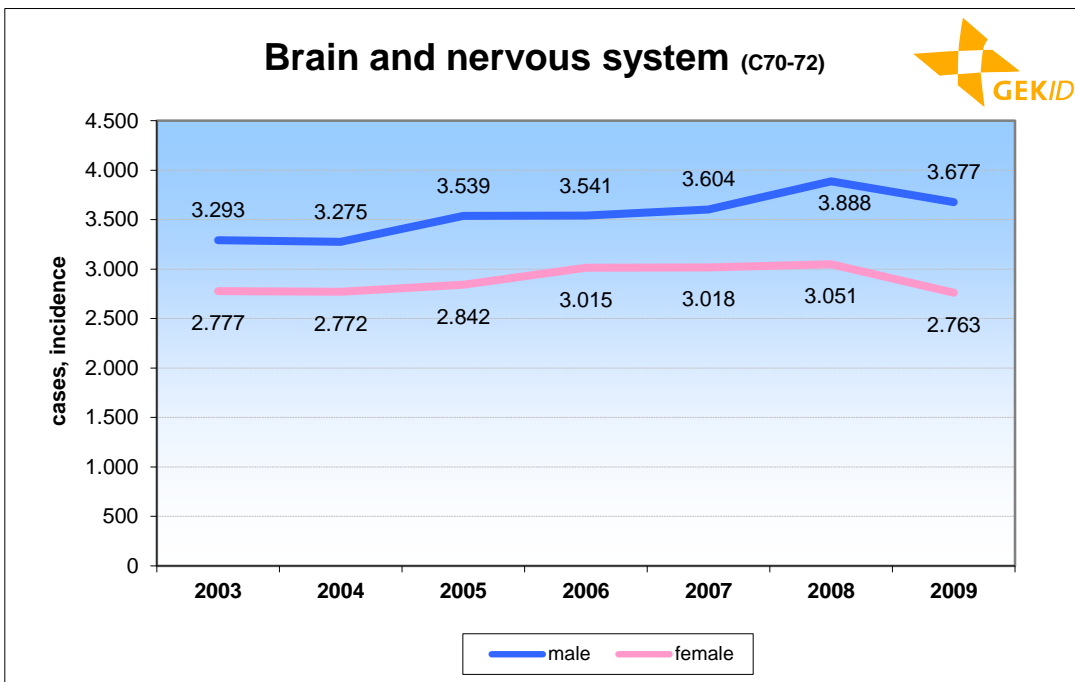
21 Brain and nervous system (C70-C72)

Age-standardized incidence rate (Projection for Germany)



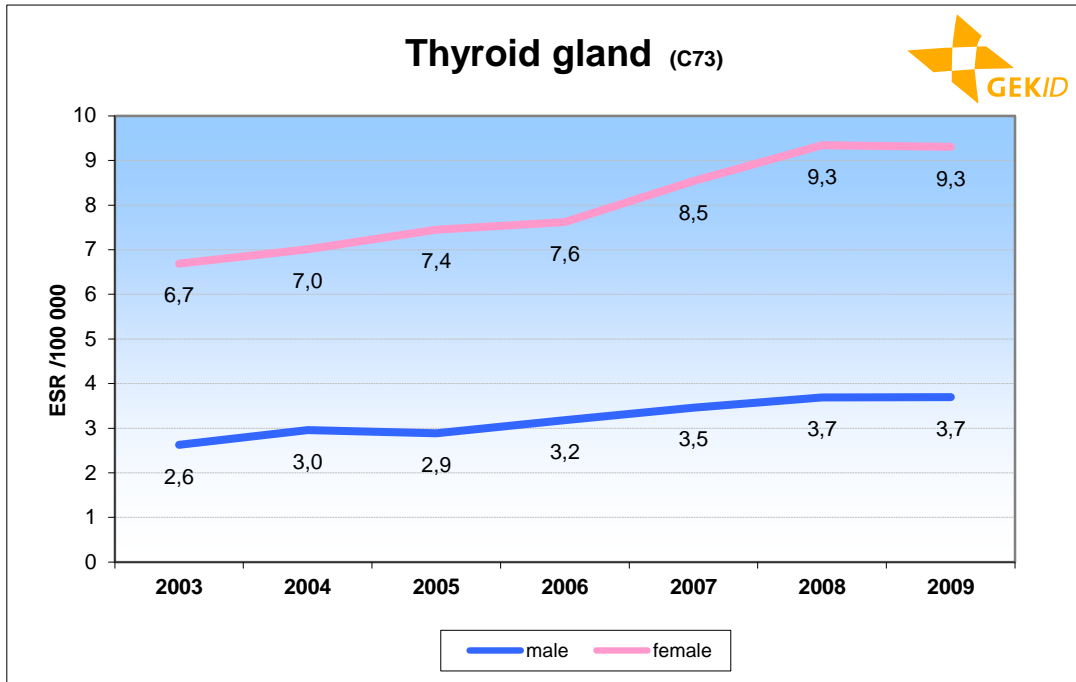
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



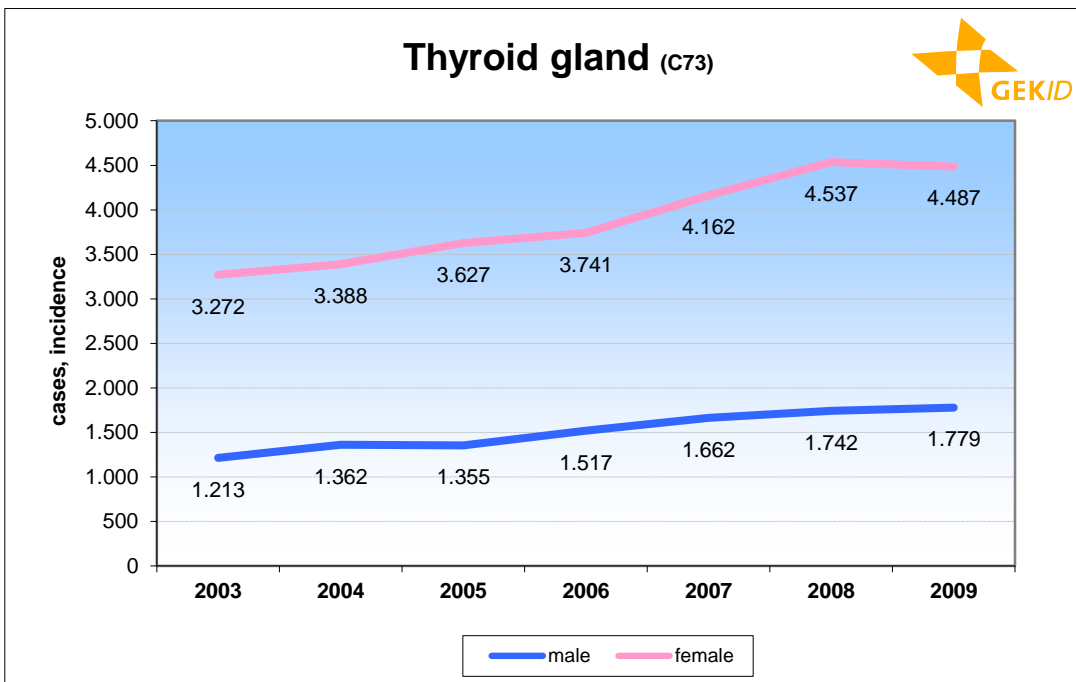
22 Thyroid gland (C73)

Age-standardized incidence rate (Projection for Germany)



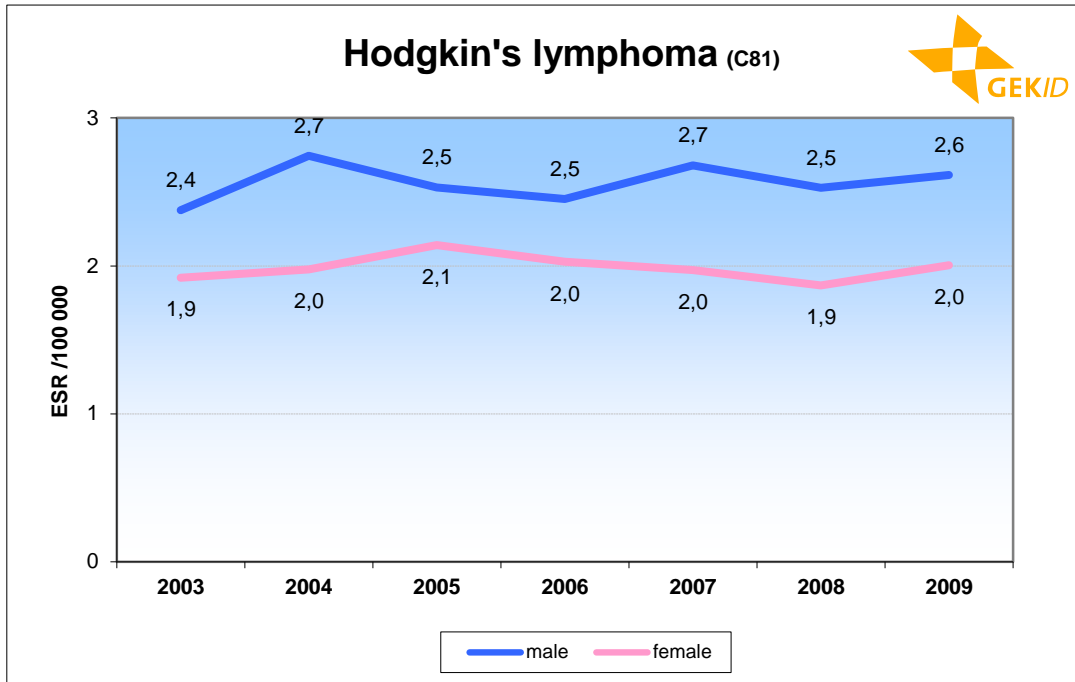
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



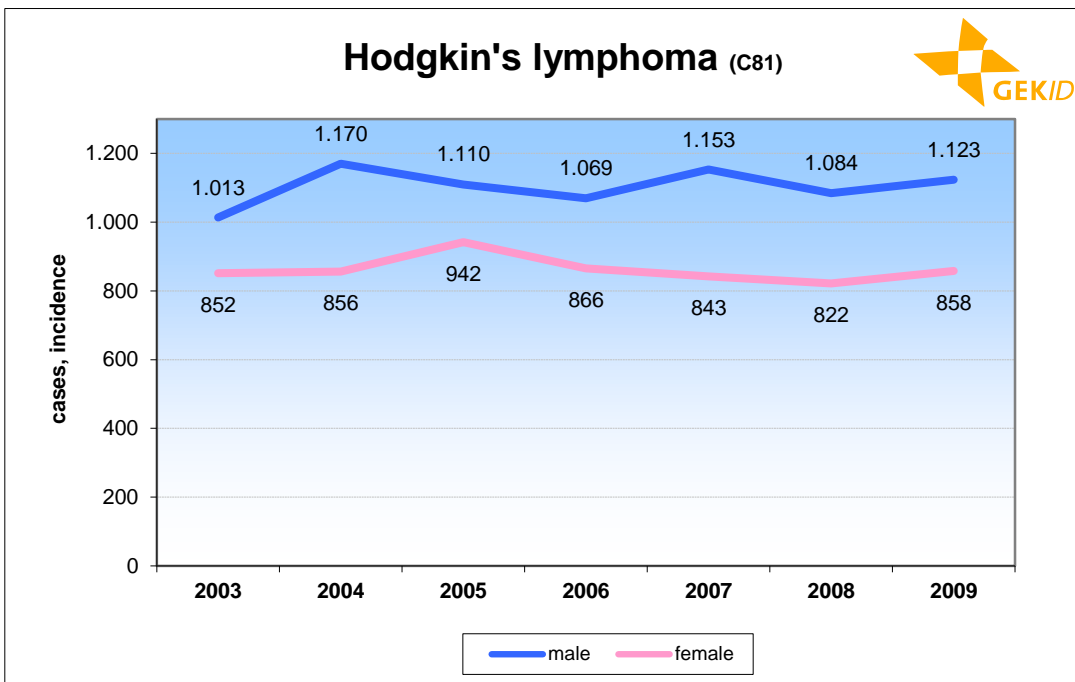
23 Hodgkin's Lymphoma (C81)

Age-standardized incidence rate (Projection for Germany)



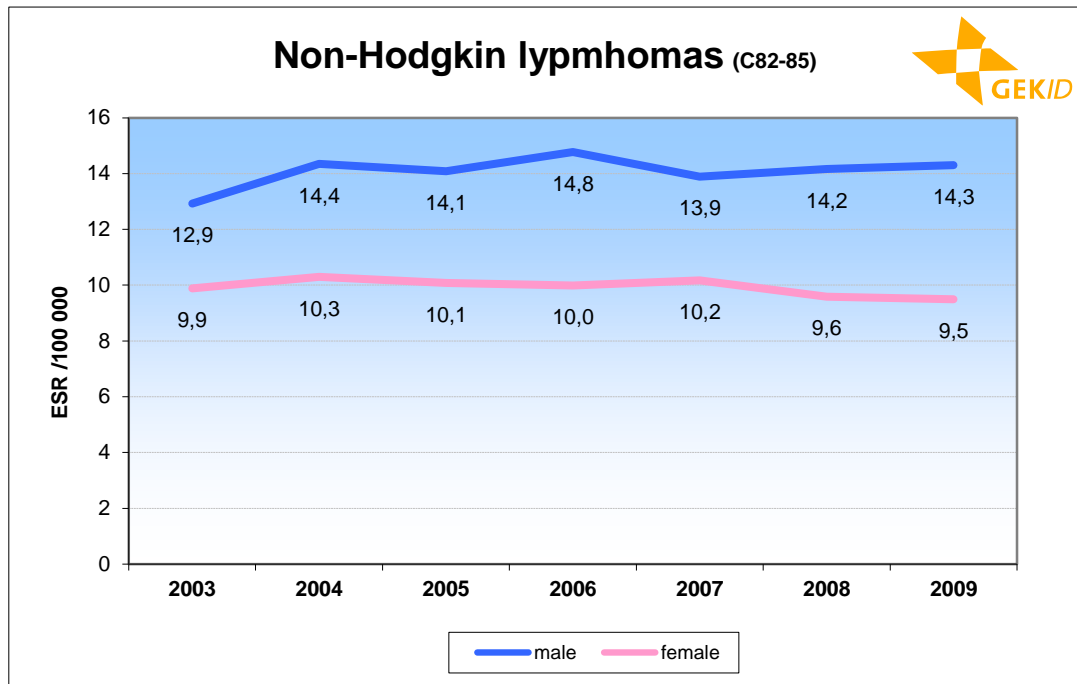
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



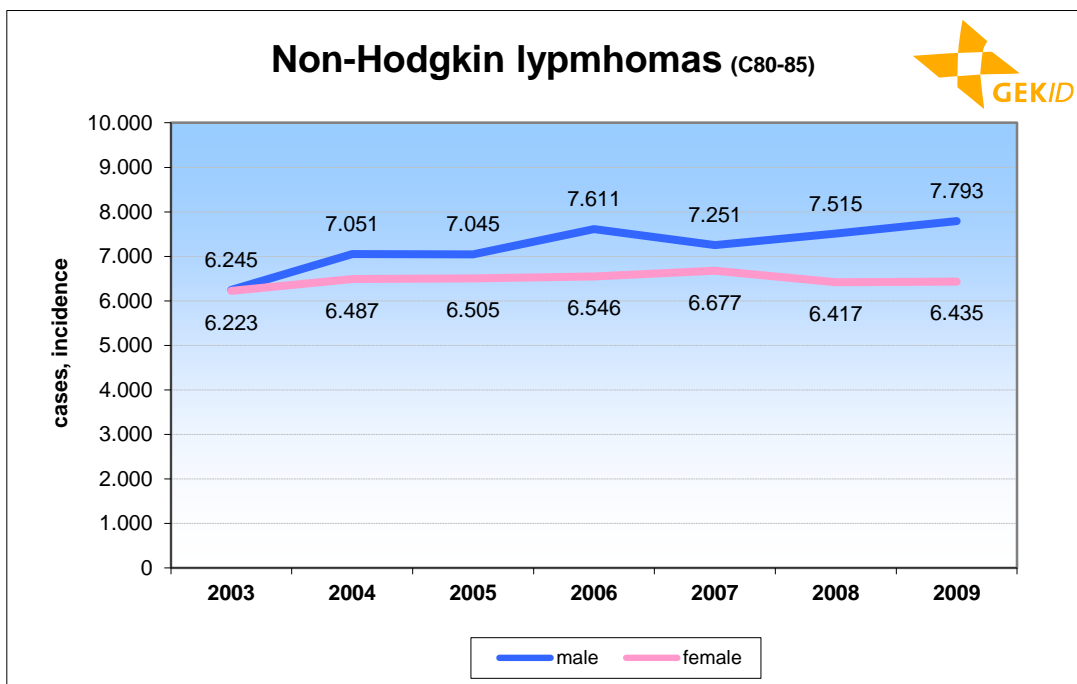
24 Non-Hodgkin-Lymphomas (C82-C85, C96)

Age-standardized incidence rate (Projection for Germany)



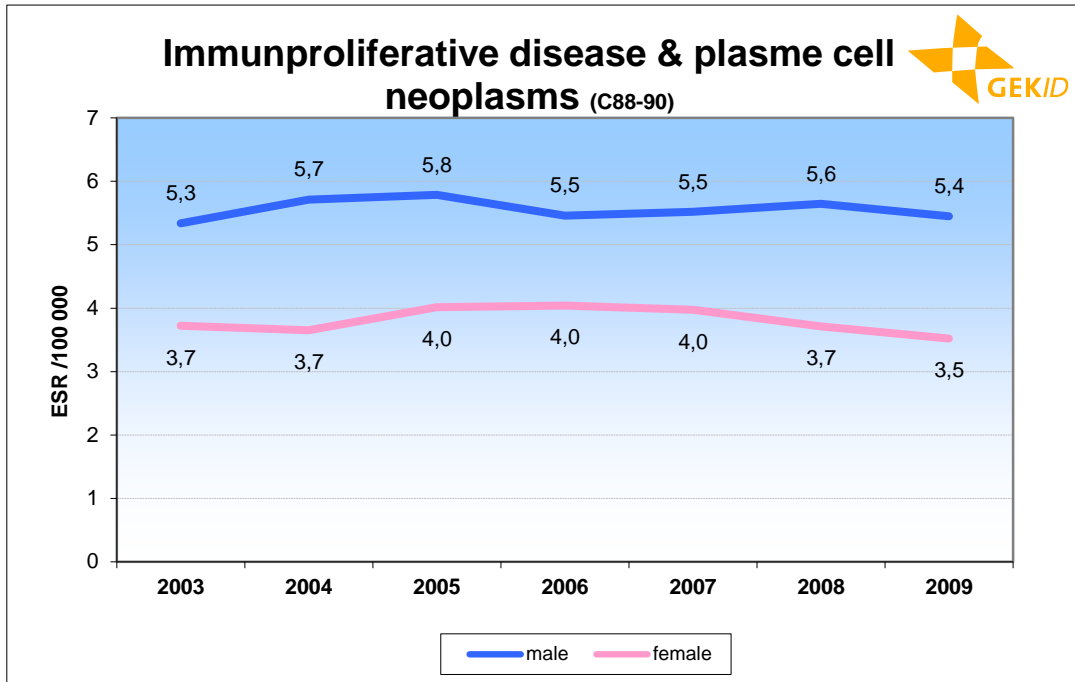
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



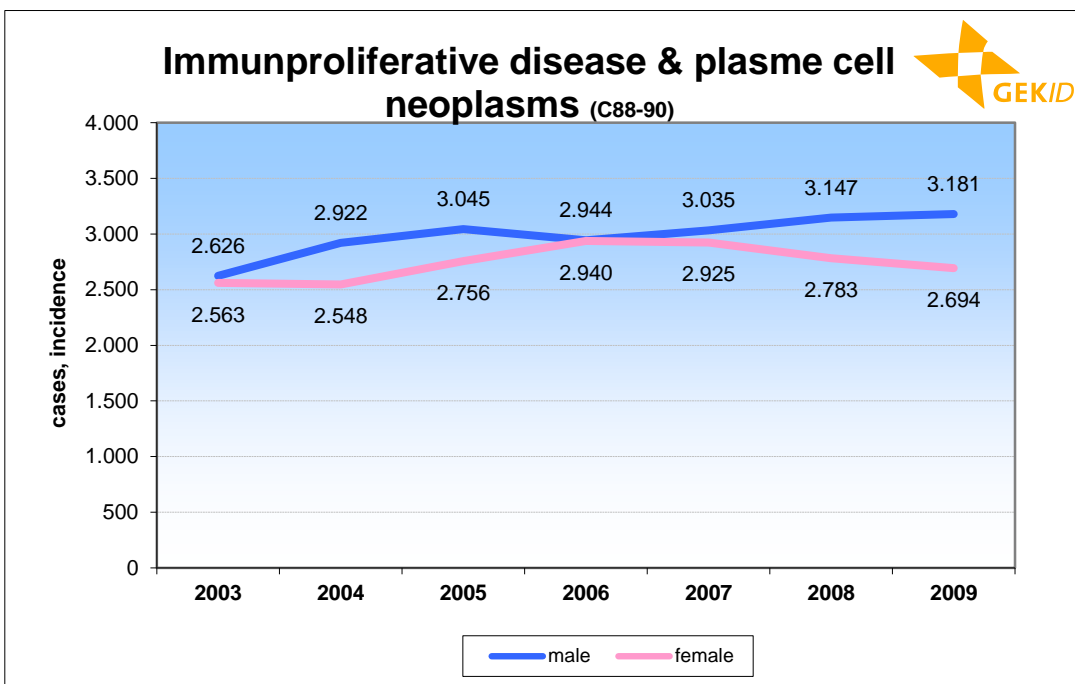
25 Immunproliferative disease and plasme cell neoplasms (C88-C90)

Age-standardized incidence rate (Projection for Germany)



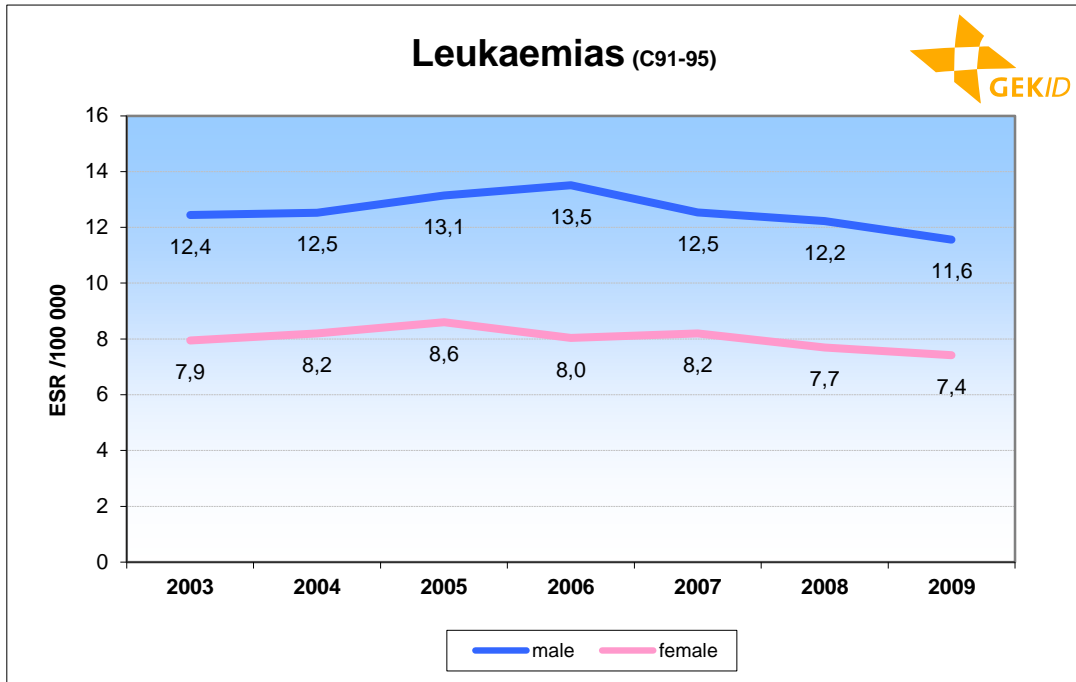
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



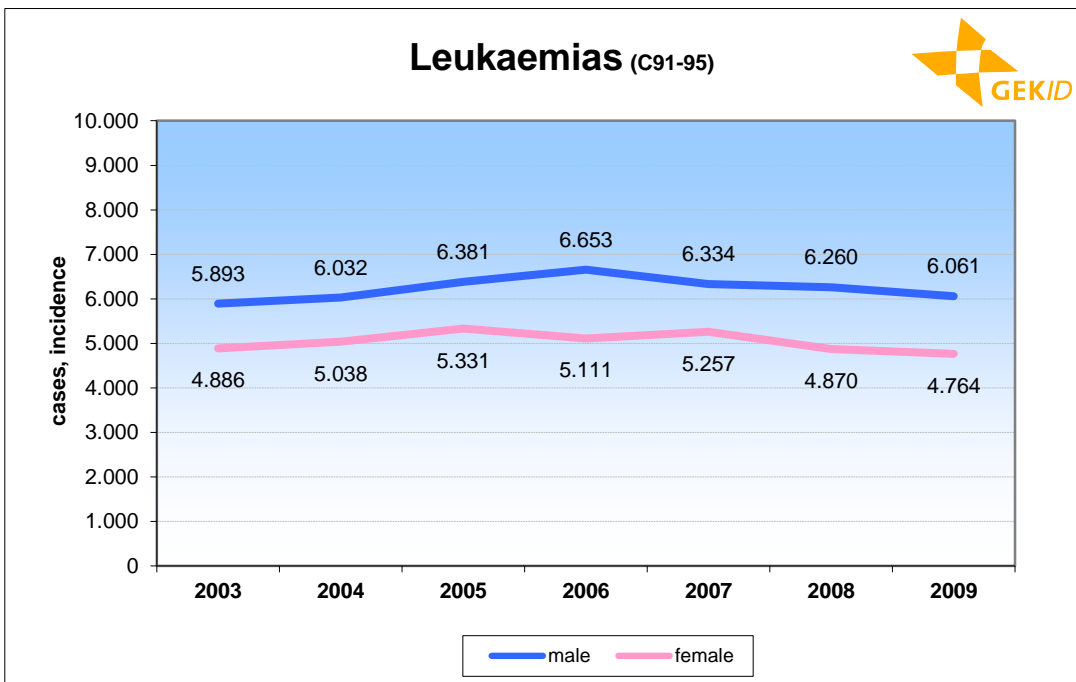
26 Leukaemias (C91-C95)

Age-standardized incidence rate (Projection for Germany)



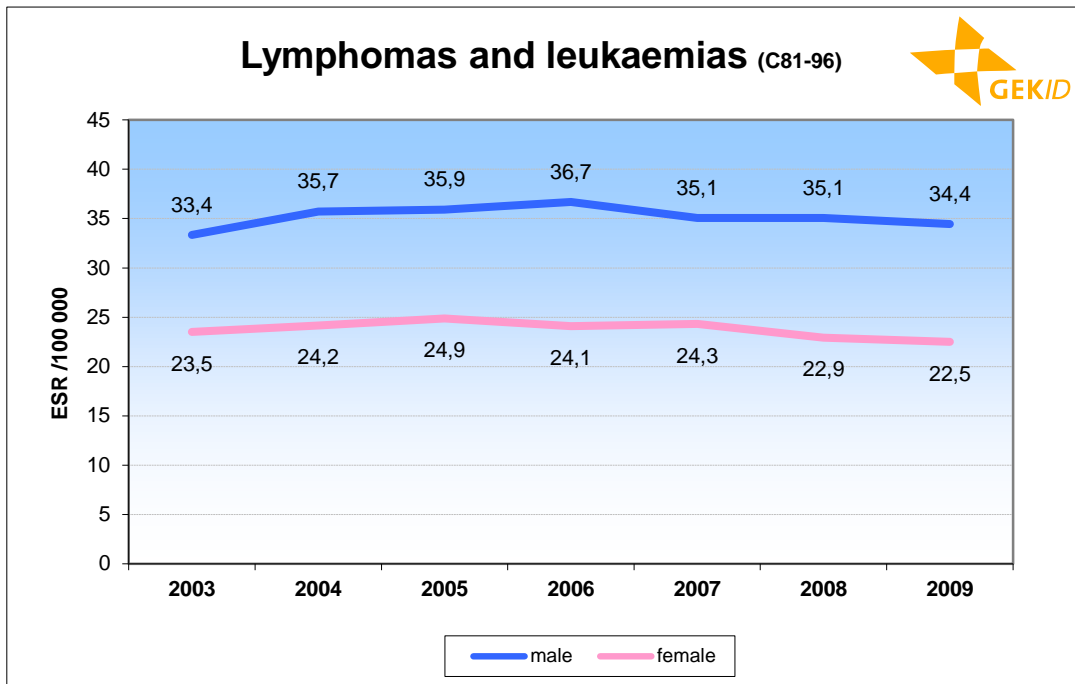
ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)



27 Leukaemias and lymphomas (C81-C96)

Age-standardized incidence rate (Projection for Germany)



ESR = age-standardized rate with the Europe standard population

Number of new cases (Projection for Germany)

