



# **Cancer in the ACT Survival estimates 1995-2004**

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## EXECUTIVE SUMMARY

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This is the first report of cancer survival estimates in the ACT, providing important baseline information for assessing the impact of improvements in diagnosis and treatment of cancer in the ACT.

The report provides population based estimates of all cancers recorded in the ACT Cancer Registry up to the end of 2004, comparing survival of two five year periods 1995-1999 and 2000-2004.

Five-year survival is the estimated proportion of ACT residents with a particular cancer who have survived at least five years since their diagnosis.

Cancers with highest 5-year survival were:

- Testis (99%);
- Thyroid (male: 99%; female: 97%);
- Melanoma (male: 88%, female: 97%);
- Female breast (91%);
- Prostate (91%); and
- Cervix (84%).

Cancers with lowest 5-year survival were:

- Pancreas (male: 9%; female: 13%);
- Liver (male: 12%; female: 19%);
- Mesothelioma (male: 15%, female: not available);
- Lung (male: 16%; female: 22%); and
- Unknown primary site (male: 17%; female: 12%).

### **Survival trends**

This report provides base line estimates. Significant changes to survival between the two five year periods were not expected due to the low number of cases in the ACT for most cancers. However female breast cancer showed a statistically significant increase in 5-year relative survival over the two five year periods (87% in 1995-1999 and 92% in 2000-2004). A number of cancers showed an apparent increase in 5-year relative survival between 1995-1999 and 2000-2004 although this was not statistically significant. These included: non-Hodgkin's lymphoma, colorectal, bladder, rectum, lung, oesophagus, ovary and stomach cancers. The low numbers of cases for some cancers means that significant changes will not be detectable in the shorter term.

### **Gender**

In general, females had a higher 5-year survival than males, with the exception of cancers of the stomach, kidney and bladder, where males had a better survival than females.

### **Age at diagnosis**

Almost all cancer histories showed that persons who were diagnosed at an older age had a relatively poorer prognosis (5-year survival) than those who were diagnosed younger, although the magnitude of the decline varied depending on the type of cancer.

### **Spread of disease at diagnosis**

Almost all cancers showed that as the spread of disease at diagnosis is more advanced, the poorer is the disease prognosis (5-year survival). For example, colorectal cancer had the highest 5-year survival for those with localised spread (96%) followed by those with regional spread (69%) and those with distant spread (9%).

### **State and territory comparisons**

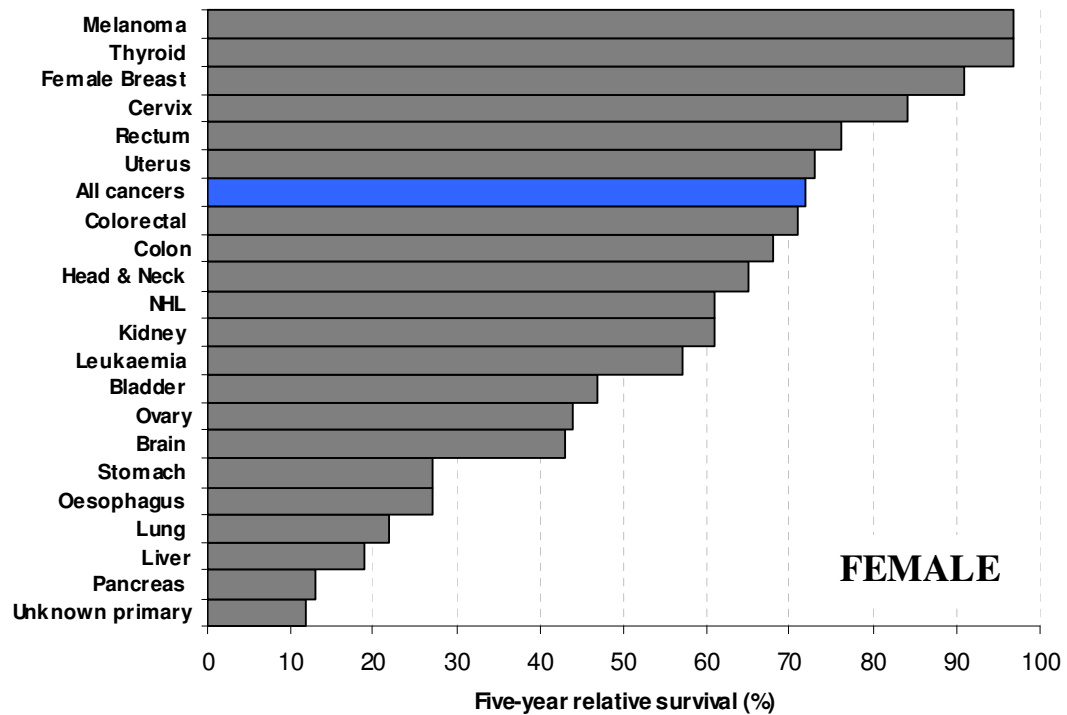
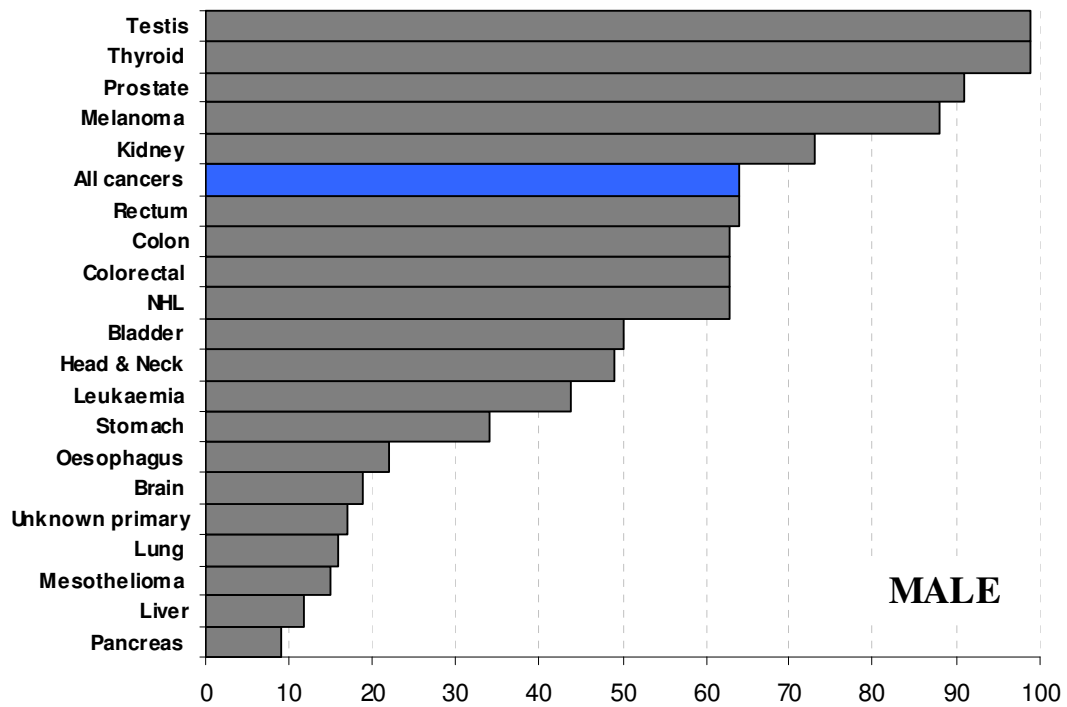
Caution needs to be taken when comparing ACT and published national survival estimates due to different time periods used for calculations. However the ACT survival estimates for most cancers generally compare favourably with national estimates.

**Table 1: 5-year survival ratio (%) by sex and cancer site, 2000-2004.**

<b>Cancer site</b>	<b>Male</b>	<b>Female</b>
All cancers	64	72
Female Breast	-	91
Prostate	91	-
Colon	63	68
Rectum	64	76
Colorectal	63	71
Lung	16	22
Uterus	-	73
Cervix	-	84
Ovary	-	44
NHL	63	61
Melanoma	88	97
Stomach	34	27
Head & Neck	49	65
Kidney	73	61
Oesophagus	22	27
Pancreas	9	13
Testis	99	-
Thyroid	99	97
Bladder	50	47
Brain	19	43
Liver	12	19
Mesothelioma	15	-
Leukaemia	44	57
Unknown primary site	17	12



Figure 1: 5-year survival (%) for all cancers in ACT males and females, 2000-2004.



## SURVIVAL ESTIMATES OF SELECTED CANCERS

### All cancers

**The 5-year survival** for all persons with cancer was 68%.

**Sex:** Survival was slightly higher for females than males.

**Age at diagnosis:** Persons diagnosed at an older age had lower survival rates. Survival decreased from 85% for persons aged 15-44 years to 65% for persons aged 60-74 years.

**Stage:** Persons diagnosed with more advanced cancers experienced a lower survival. Of those persons who survived five years after diagnosis: 89% had localised spread (confined to tissue of origin); 66% had regional spread (invading adjacent tissue and regional lymph nodes); and 10% had distant metastasis.

**Time trends:** Overall cancer survival improved over the two five year periods from 66% (1995-1999) to 69% (2000-2004).

**Table 2: Survival by years after diagnosis, sex, age group and stage, all cancers, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			82	(81-83)
2			75	(74-76)
3			71	(71-73)
4			69	(68-70)
5			68	(66-69)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	6426	2161	68	(66-69)
<b>Sex</b>				
Male	3364	1288	64	(62-66)
Female	3062	873	72	(70-73)
<b>Age at diagnosis</b>				
15-44	768	101	85	(83-88)
45-59	1893	411	76	(74-78)
60-74	2188	779	65	(62-67)
75+	1524	861	50	(47-54)
<b>Stage</b>				
Localised	2769	439	89	(87-90)
Regional	1361	450	66	(63-69)
Distant	853	659	10	(8-13)
Unknown	1461	613	60	(57-63)
<b>Selected period</b>				
1995-1999	5000		66	(65-68)
2000-2004	5973		69	(68-71)

Figure 2: Survival by sex, all cancers, ACT, 2000-2004.

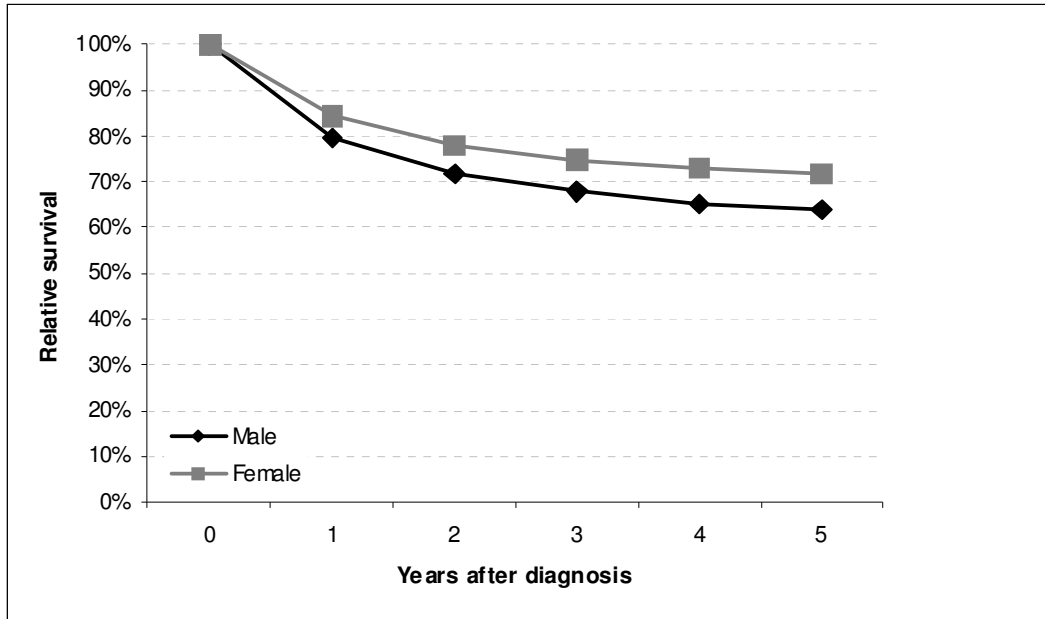
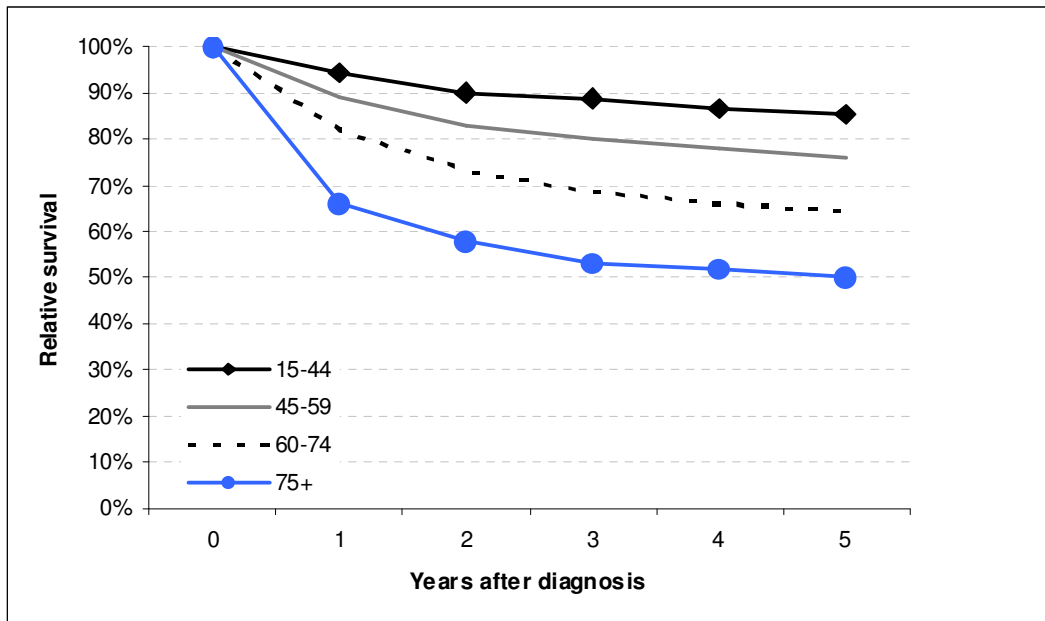
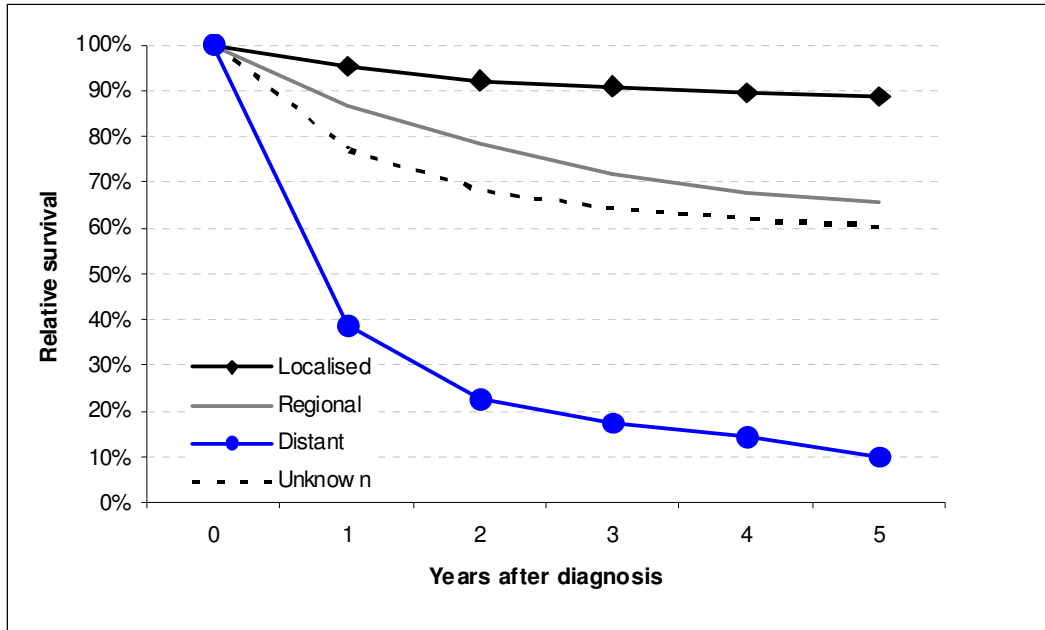


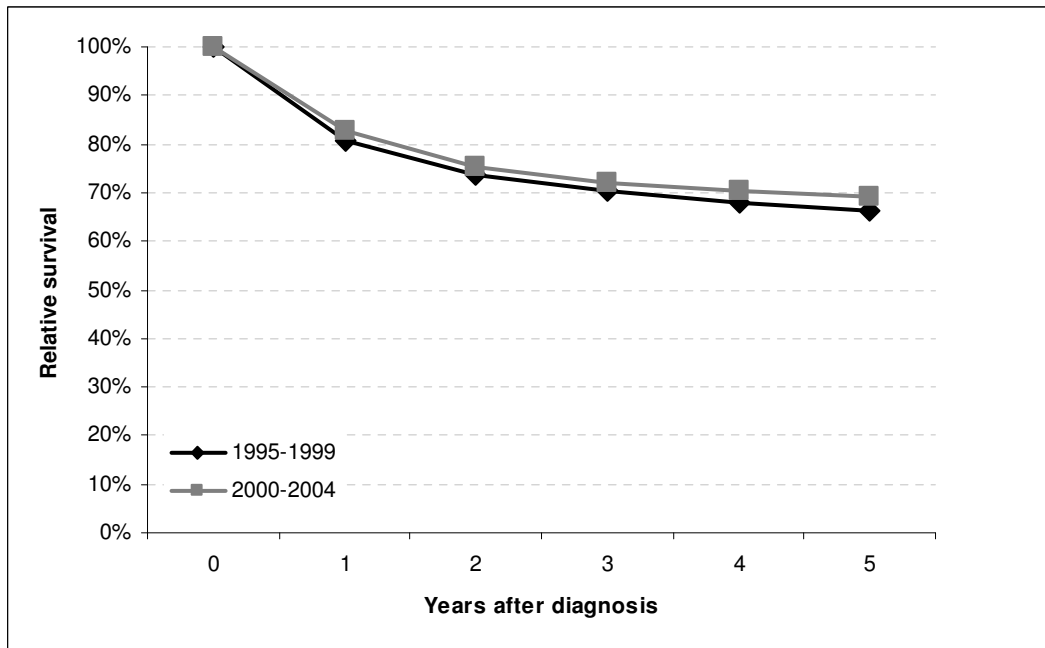
Figure 3: Survival by age group, all cancers, ACT, 2000-2004.



**Figure 4: Survival by stage, all cancers, ACT, 2000-2004.**



**Figure 5: Survival by period, all cancers, ACT, 1995-2004.**



## Bladder

---

**The 5-year survival** for persons with bladder cancer was 49%.

**Sex:** Survival was slightly higher for males (50%) than females (47%).

**Age at diagnosis:** Persons diagnosed at an older age showed lower survival, decreasing from 66% for persons aged 45-59 years to 33% for persons aged over 75 years.

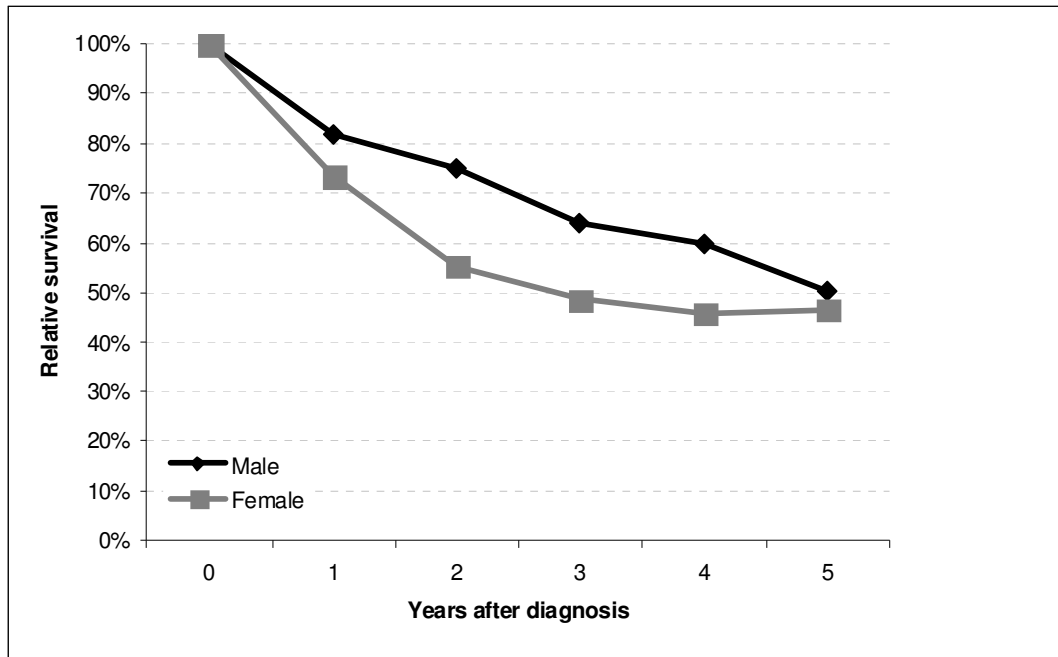
**Stage:** Persons diagnosed with more advanced cancers experienced a lower survival, decreasing from 67% for persons with localised spread to 7% for those with distant metastasis.

**Time trends:** Survival improved over the two five year periods from 44% (1995-99) to 63% (2000-2004) however this was not statistically significant due to low numbers.

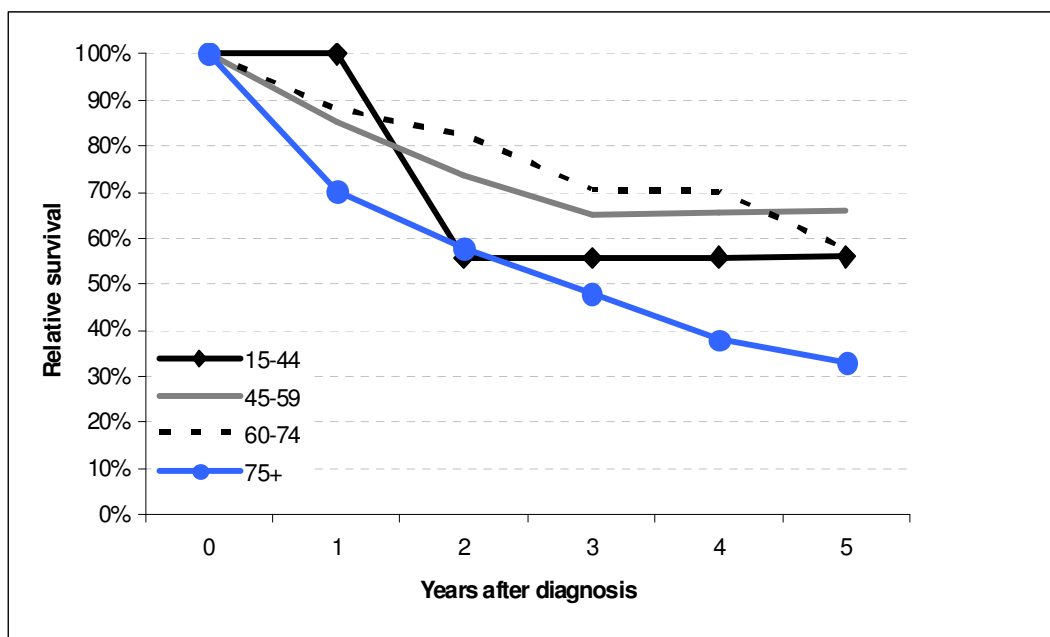
**Table 3: Bladder cancer, survival by years after diagnosis, by sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			80	(72-86)
2			70	(62-77)
3			60	(51-68)
4			56	(47-65)
5			49	(39-58)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	152	79	49	(39-58)
<b>Sex</b>				
Male	114	58	50	(39-61)
Female	38	21	47	(29-63)
<b>Age at diagnosis</b>				
15-44	2	1	56	(4-91)
45-59	29	9	66	(44-81)
60-74	53	25	58	(42-71)
75+	68	44	33	(19-50)
<b>Stage</b>				
Localised	91	32	67	(53-79)
Regional	35	30	11	(3-25)
Distant	10	7	7	(0-37)
Unknown	16	7	53	(28-77)
<b>Selected period</b>				
1995-1999			44	(33-54)
2000-2004			63	(52-73)

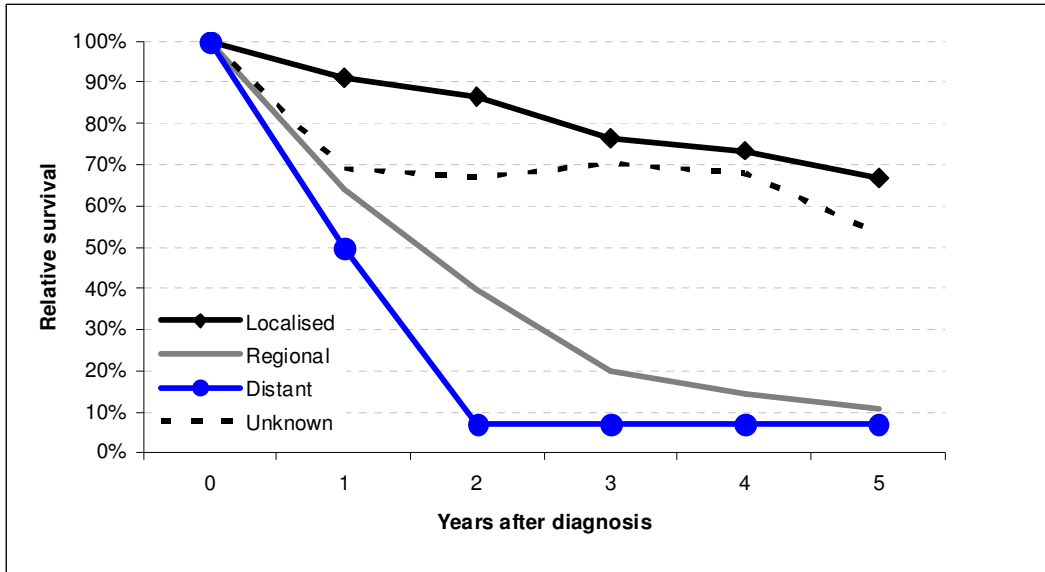
**Figure 6: Bladder cancer, survival by sex, ACT, 2000-2004.**



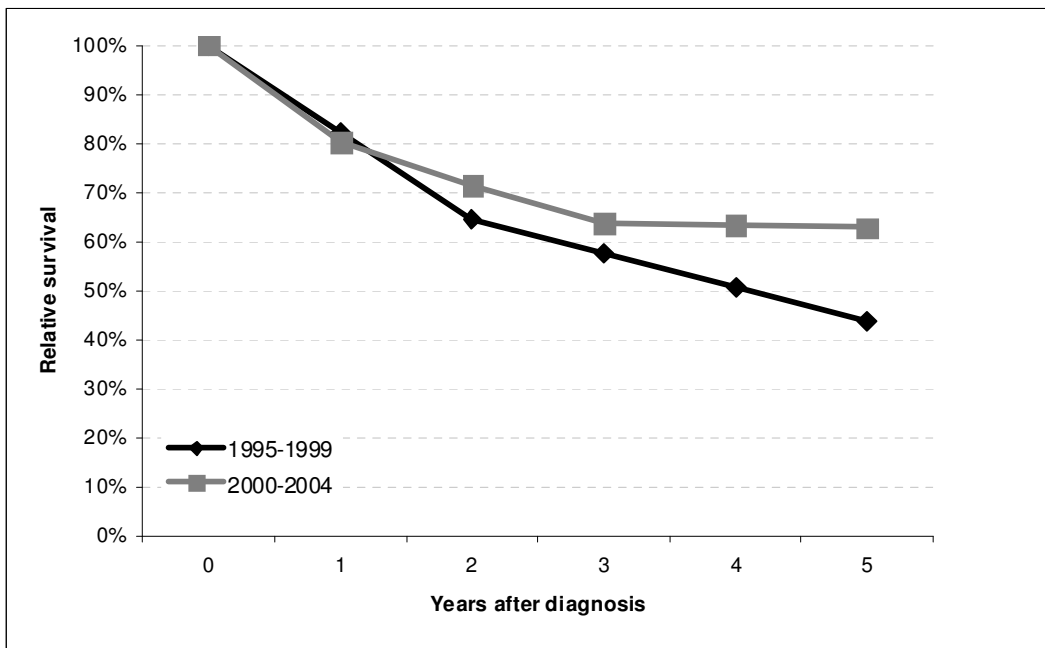
**Figure 7: Bladder cancer, survival by age group, ACT, 2000-2004.**



**Figure 8: Bladder cancer, survival by stage, ACT, 2000-2004.**



**Figure 9: Bladder cancer, survival by period, ACT, 1995-2004.**



## Brain

**The 5-year survival** for persons with brain cancer was 27%. Ninety-eight per cent of all cases (N=106) were gliomas.

**Sex:** Survival was higher for females (43%) than males (19%). Note that a higher proportion of male cases were of unknown stage status (male: 30%, female 19%) and 5-year survival for unknown staging is poor, probably indicating more advanced staging.

**Age at diagnosis:** Persons diagnosed at an older age showed lower survival, decreasing from 55% for persons aged 15-44 years to 13% for those aged 60-74 years. Note that all persons 75 years and over in this analysis died within three years of diagnosis, thus 5-year survival is not available for this group. Clinically, gliomas have a much worse prognosis in the elderly.

**Stage:** Comparisons between staging and survival are not available as almost all the cases were either localised or unknown. Persons diagnosed with regional or distant spread were rare with only two cases reported for each of these groups during the reporting period.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

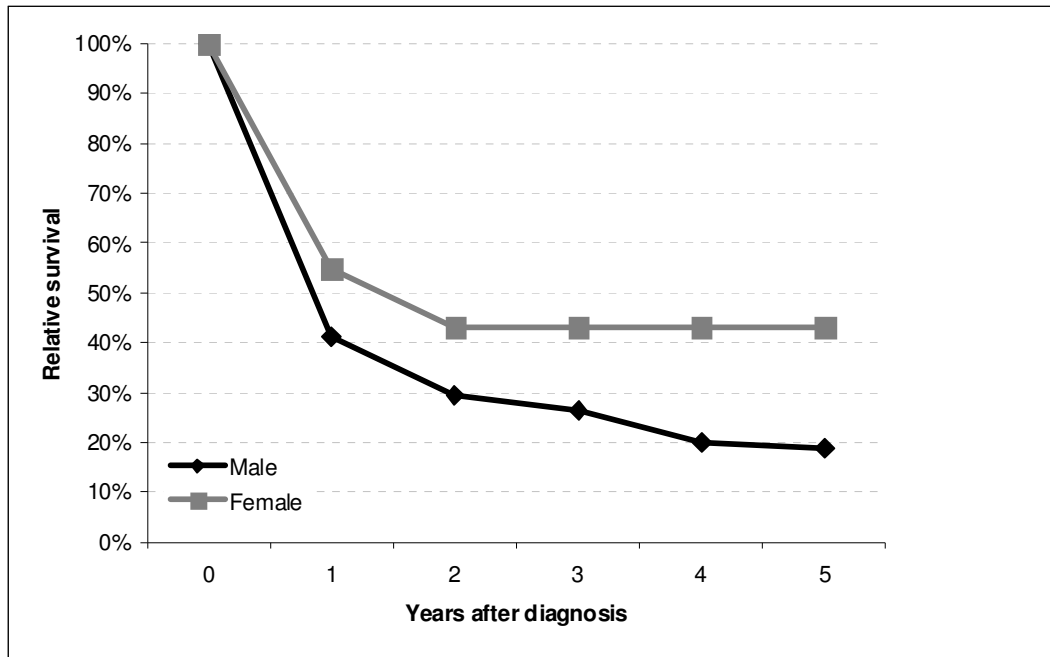
**Table 4: Brain cancer, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			47	(37-56)
2			35	(26-44)
3			33	(24-42)
4			28	(20-36)
5			27	(19-35)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	106	72	27	(19-35)
<b>Sex</b>				
Male	62	50	19	(11-28)
Female	44	22	43	(28-58)
<b>Age at diagnosis</b>				
15-44	26	10	55	(34-71)
45-59	39	26	20	(8-35)
60-74	19	18	13	(2-34)
75+	15	15	NA	NA
<b>Stage</b>				
Localised	64	42	26	(16-37)
Regional	2	1	48	(1-93)
Distant	2	2	NA	NA
Unknown	38	27	28	(15-43)
<b>Selected period</b>				
1995-1999			33	(23-43)
2000-2004			31	(22-41)

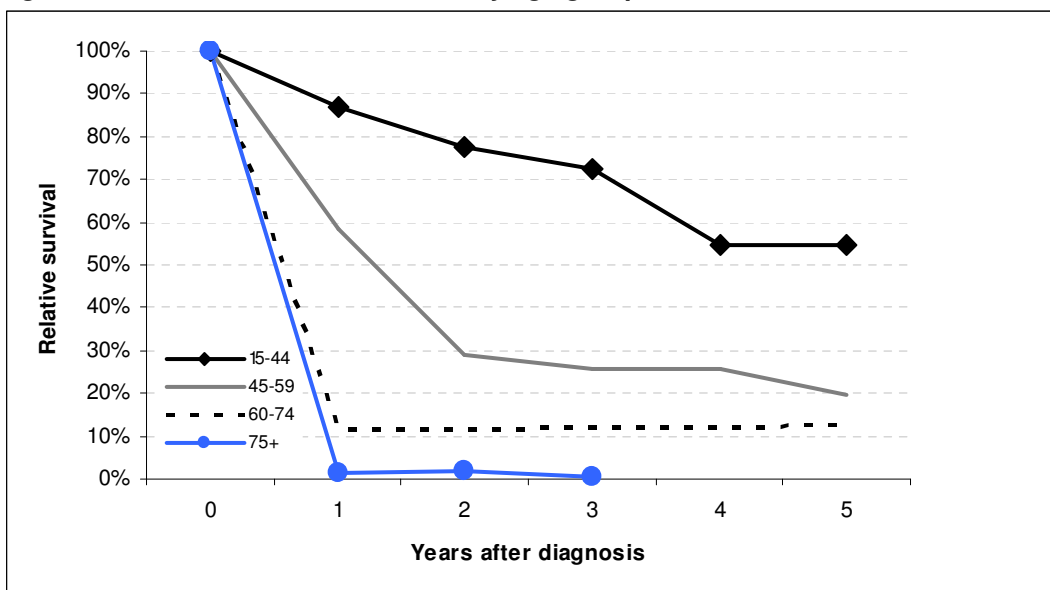
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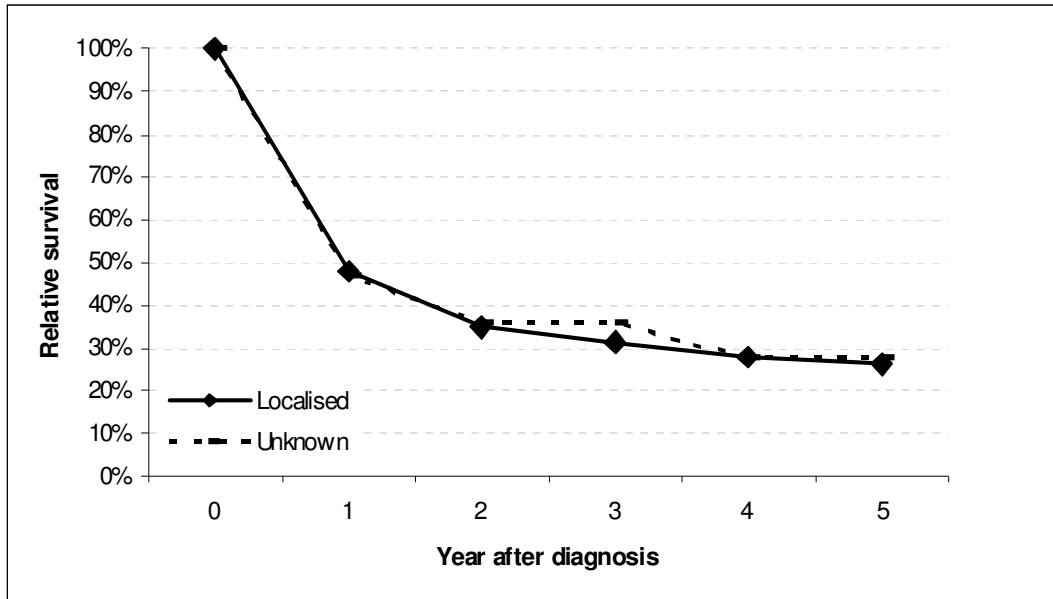
**Figure 10: Brain cancer, survival by sex, ACT, 2000-2004.**



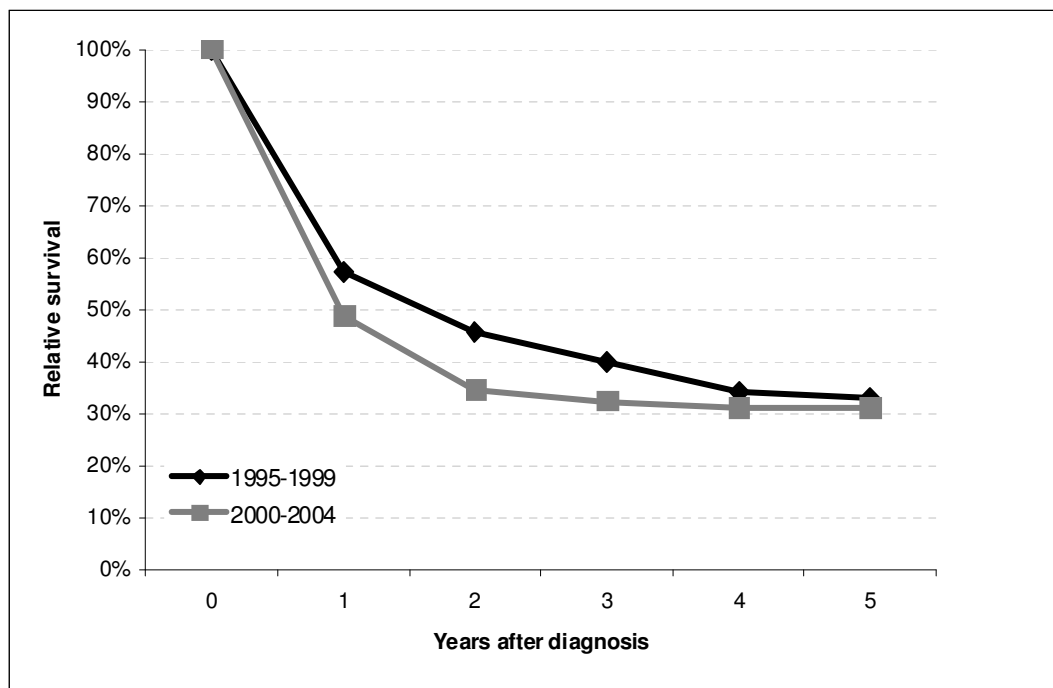
**Figure 11: Brain cancer, survival by age group, ACT, 2000-2004.**



**Figure 12: Brain cancer, survival by stage, ACT, 2000-2004.**



**Figure 13: Brain cancer, survival by period, ACT, 1995-2004.**



## Cervix

**The 5-year survival** for women with cervical cancer was 84%. Caution must be taken when interpreting trends because of small numbers of both cancer cases and deaths. Any gain or loss of cases or deaths could cause a large fluctuation in survival estimation.

**Age at diagnosis:** About 39% of cases were diagnosed before 45 years of age. Women aged 45-59 years had the highest 5-year survival (97%) compared to all other age groups.

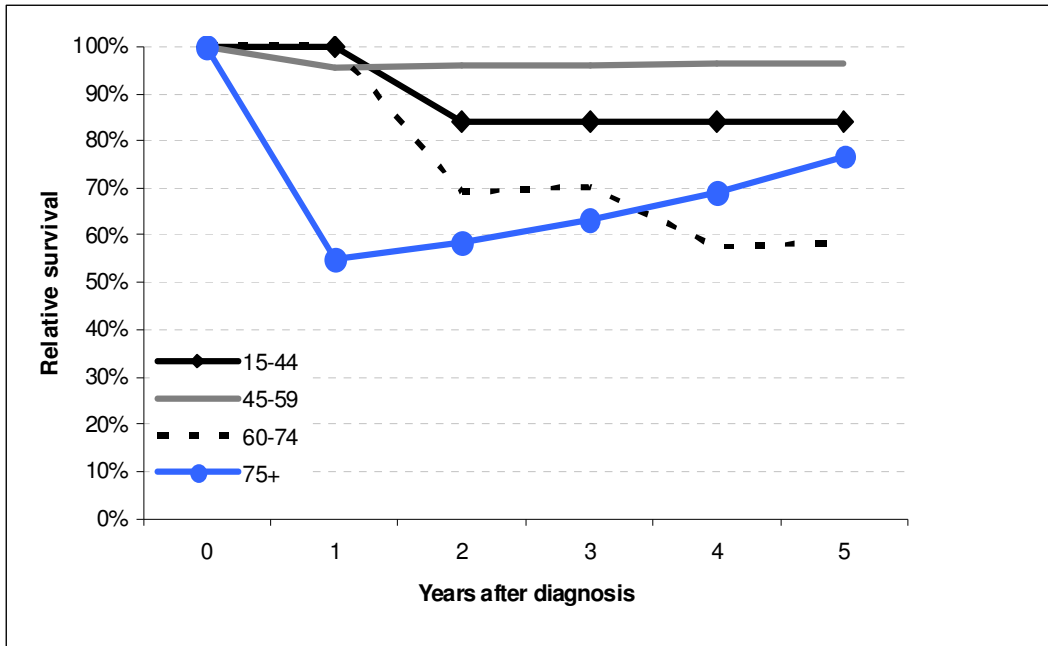
**Stage:** Most cases of cervical cancer were diagnosed at localised or regional stages (86%). Women diagnosed with more advanced cancers experienced lower survival. Of those women with localised spread (confined to tissue of origin), 97% survived at least five years after diagnosis. Of those women with regional spread (invading adjacent tissue and regional lymph nodes), 76% survived at least five years. Only 26% of women who had distant metastasis survived five years.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

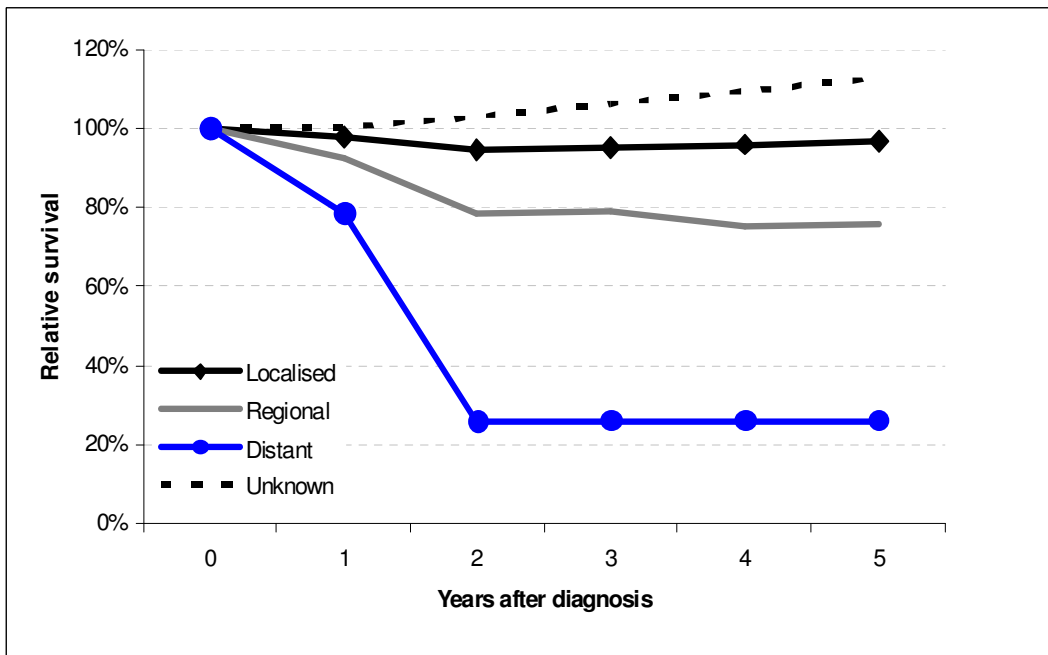
**Table 5: Cervical cancer, survival by years after diagnosis and age group, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			95	(86-99)
2			84	(71-91)
3			84	(72-92)
4			83	(71-92)
5			84	(72-93)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	64	10	84	(72-93)
<b>Age at diagnosis</b>				
15-44	25	4	84	(64-94)
45-59	22	1	97	(70-100)
60-74	11	3	59	(21-85)
75+	6	2	77	(26-100)
<b>Stage</b>				
Localised	39	2	97	(81-100)
Regional	16	4	76	(47-92)
Distant	5	4	26	(4-57)
Unknown	4	0	113	-
<b>Selected period</b>				
1995-1999			85	(71-93)
2000-2004			86	(74-94)

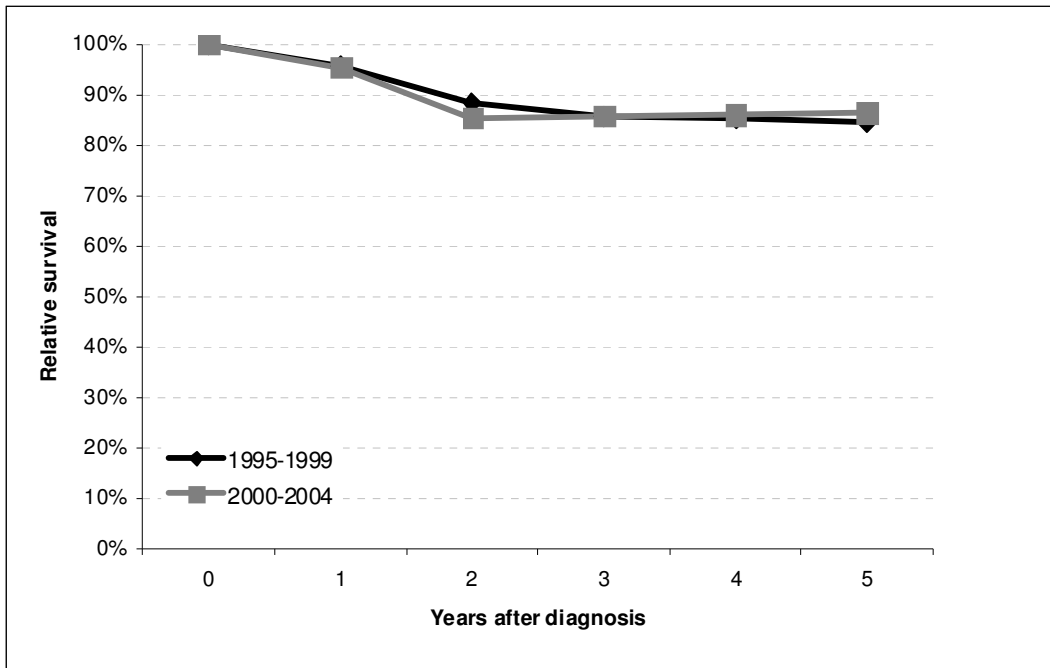
**Figure 14: Cervical cancer, survival by age group, ACT, 2000-2004.**



**Figure 15: Cervical cancer, survival by stage, ACT, 2000-2004.**



**Figure 16: Cervical cancer, survival by period, ACT, 1995-2004.**



## Colon

**The 5-year survival** for persons with colon cancer was 65%.

**Sex:** Survival was slightly higher for females (68%) than for males (63%).

**Age at diagnosis:** The majority of cases (73%) were diagnosed in persons over 60 years of age. Age at diagnosis did not show significant difference on survival.

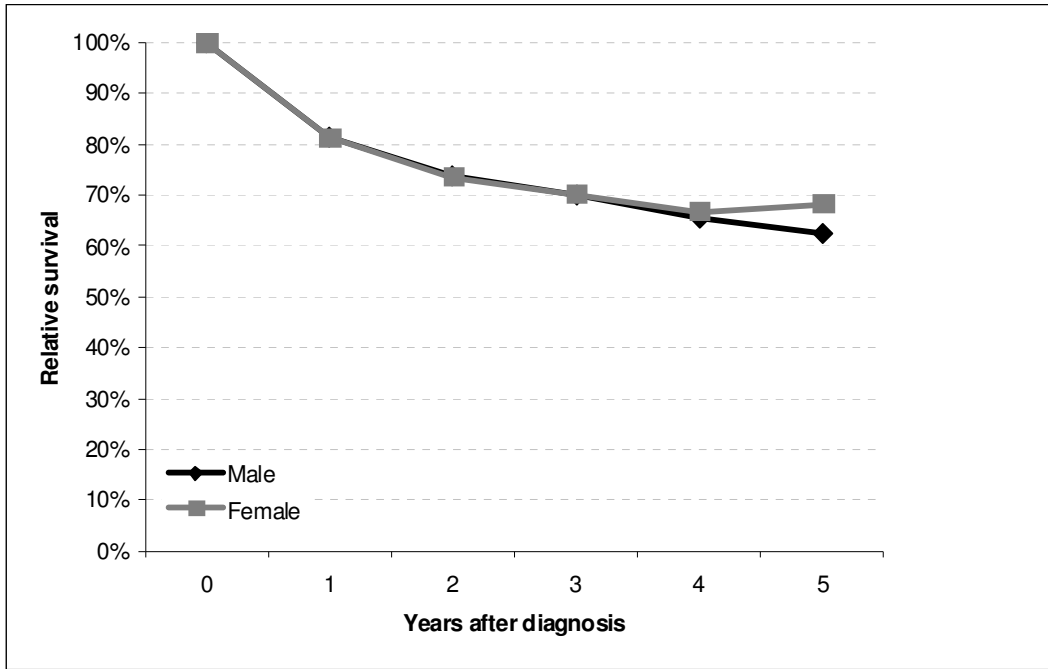
**Stage:** The majority of cases (72%) were diagnosed at localised or regional stages and 20% of cases were diagnosed at the distant stage. Persons diagnosed with more advanced cancers experienced a lower survival, decreasing from 99% for persons with localised spread to 6% for those with distant metastasis.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

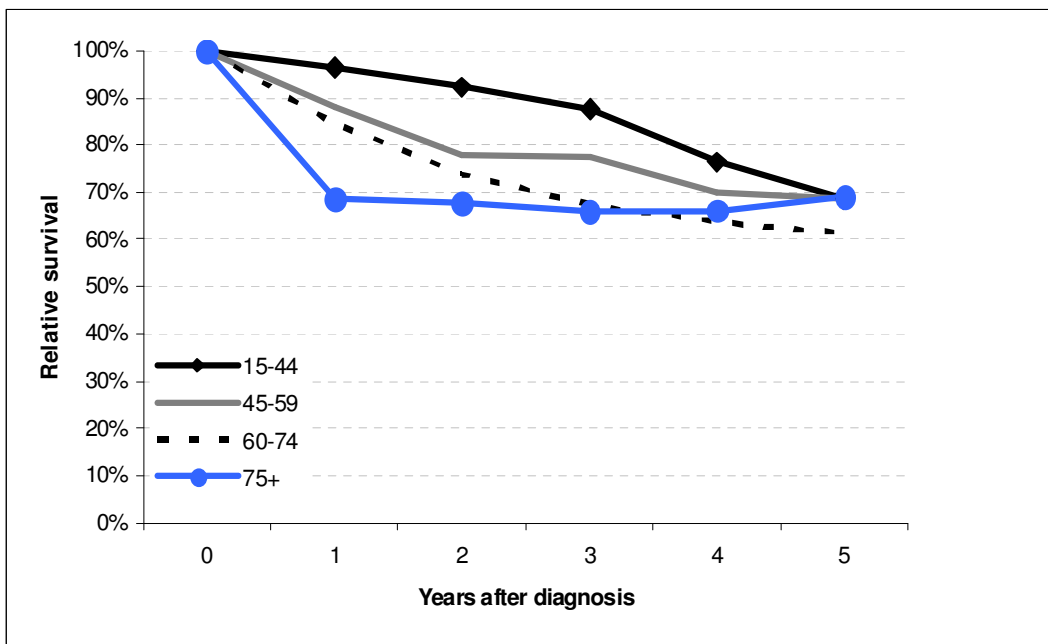
**Table 6: Colon cancer, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			81	(78-85)
2			74	(70-78)
3			70	(66-74)
4			66	(61-70)
5			65	(60-70)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	551	216	65	(60-70)
<b>Sex</b>				
Male	285	122	63	(56-69)
Female	266	94	68	(61-75)
<b>Age at diagnosis</b>				
15-44	29	6	69	(46-84)
45-59	122	38	69	(60-76)
60-74	239	92	61	(54-68)
75+	161	80	69	(57-80)
<b>Stage</b>				
Localised	143	19	99	(91-104)
Regional	256	84	73	(66-79)
Distant	111	95	6	(3-12)
Unknown	41	18	59	(41-75)
<b>Selected period</b>				
1995-1999			65	(60-71)
2000-2004			66	(60-71)

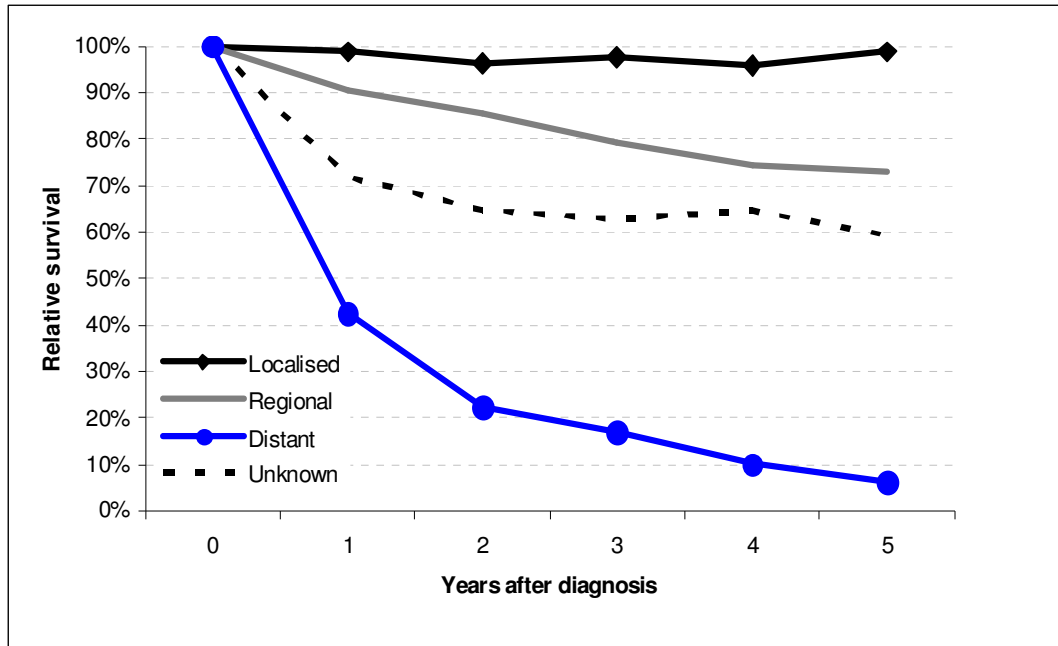
**Figure 17: Colon cancer, survival by sex, ACT, 2000-2004.**



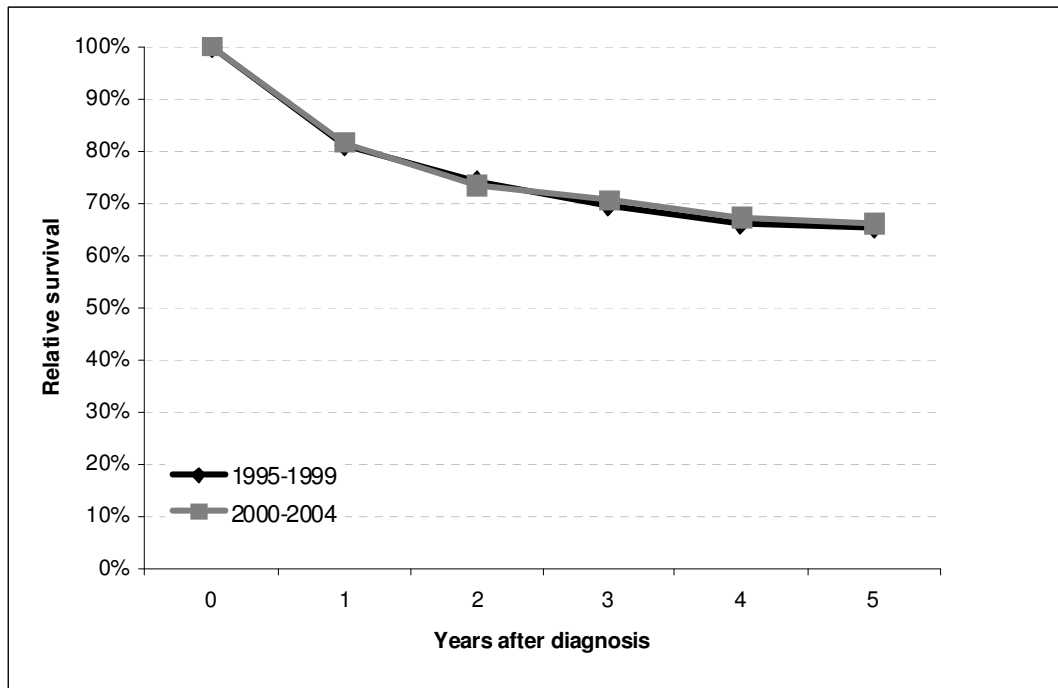
**Figure 18: Colon cancer, survival by age group, ACT, 2000-2004.**



**Figure 19: Colon cancer, survival by stage, ACT, 2000-2004.**



**Figure 20: Colon cancer, survival by period, ACT, 1995-2004.**





## Rectum

The **5-year survival** for persons with rectal cancer was 68%.

**Sex:** Survival was higher for females (76%) than for males (64%).

**Age at diagnosis:** Generally survival decreases with increasing age at diagnosis. However the effect of age was not evident in persons aged 15-44 years who had a lower (69%) survival than 45-59 years (76%), this could be due to the small numbers in the 15-44 years group.

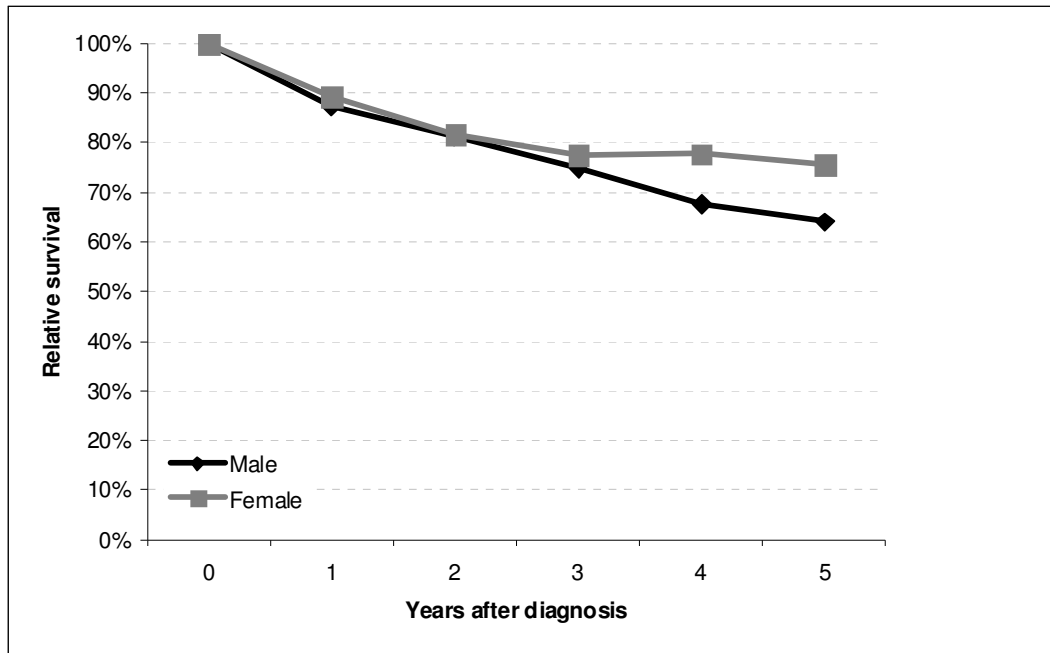
**Stage:** The majority of cases (76%) were diagnosed at localised or regional stages and 16% at distant stage. Persons diagnosed with more advanced cancers (distant metastasis) experienced a lower survival (16%) than persons with localised spread (93%).

**Time trends:** Survival improved over the two five year periods from 62% (1995-1999) to 73% (2000-2004). This is probably due to improvements in therapy (in particular pre-operative adjuvant chemotherapy and radiotherapy) and surgery since 2000.

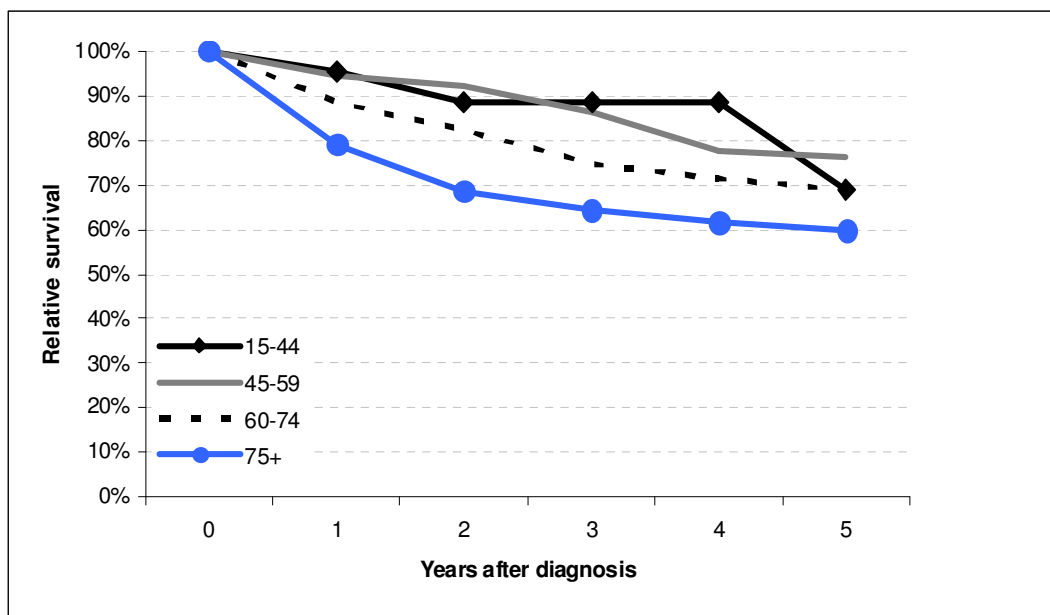
**Table 7: Rectal cancer, survival by years after diagnosis, sex and age groups, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			88	(84-91)
2			81	(76-86)
3			76	(70-81)
4			71	(65-77)
5			68	(62-75)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	328	105	68	(62-75)
<b>Sex</b>				
Male	203	69	64	(55-72)
Female	125	36	76	(64-85)
<b>Age at diagnosis</b>				
15-44	22	4	69	(43-85)
45-59	96	17	76	(65-85)
60-74	116	37	69	(58-78)
75+	94	47	60	(44-75)
<b>Stage</b>				
Localised	115	17	93	(82-100)
Regional	135	52	62	(52-71)
Distant	51	26	16	(3-38)
Unknown	27	10	70	(47-87)
<b>Selected period</b>				
1995-1999			62	(54-70)
2000-2004			73	(66-79)

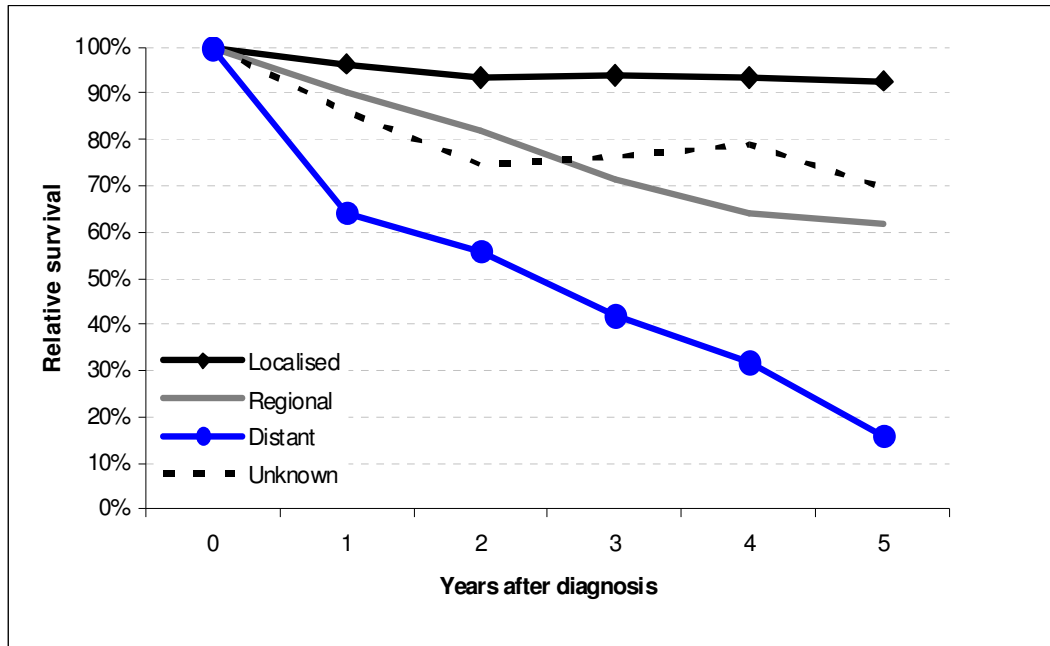
**Figure 21: Rectal cancer, survival by sex, ACT, 2000-2004.**



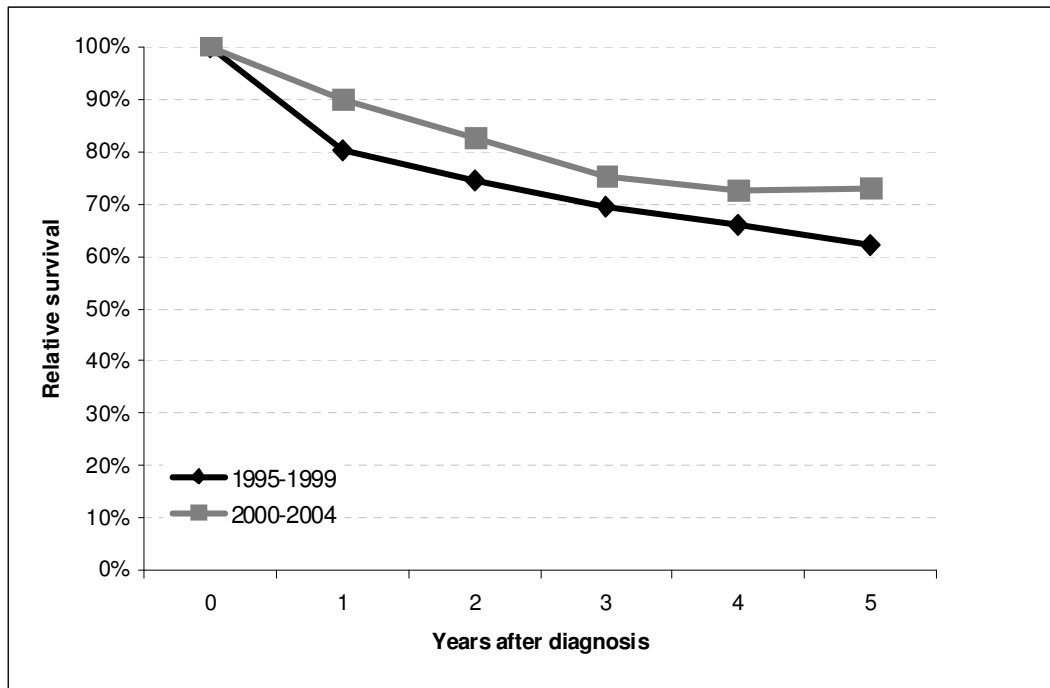
**Figure 22: Rectal cancer, survival by age group, ACT, 2000-2004.**



**Figure 23: Rectal cancer, survival by stage, ACT, 2000-2004.**



**Figure 24: Rectal cancer, survival by period, ACT, 1995-2004.**



## Colorectal

**The 5-year survival** for persons with colorectal (large bowel) cancer was 66%.

**Sex:** Survival was higher for females (71%) than for males (63%).

**Age at diagnosis:** The majority of the cases (69%) were diagnosed in persons over 60 years of age. Older age at diagnosis showed lower survival.

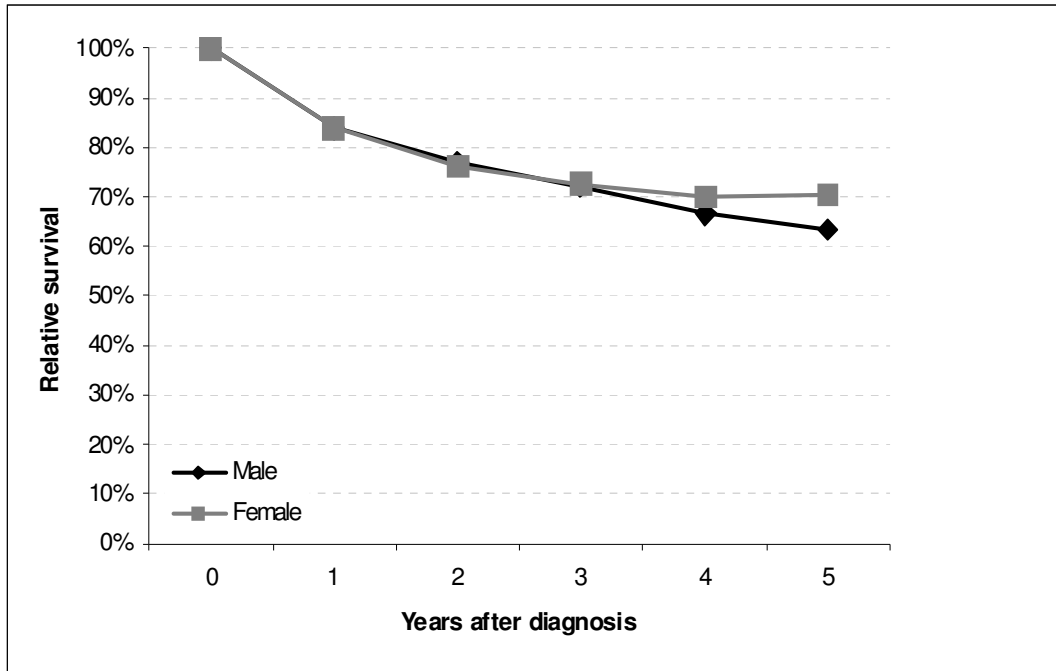
**Stage:** Most cases (74%) were diagnosed at localised or regional stages, and 18% at the distant stage. Persons diagnosed with more advanced cancers (distant metastasis) experienced a lower survival (9%) than those with localised spread (96%).

**Time trends:** Survival improved from 64% (1995-1999) to 69% (2000- 2004), although this change was not statistically significant.

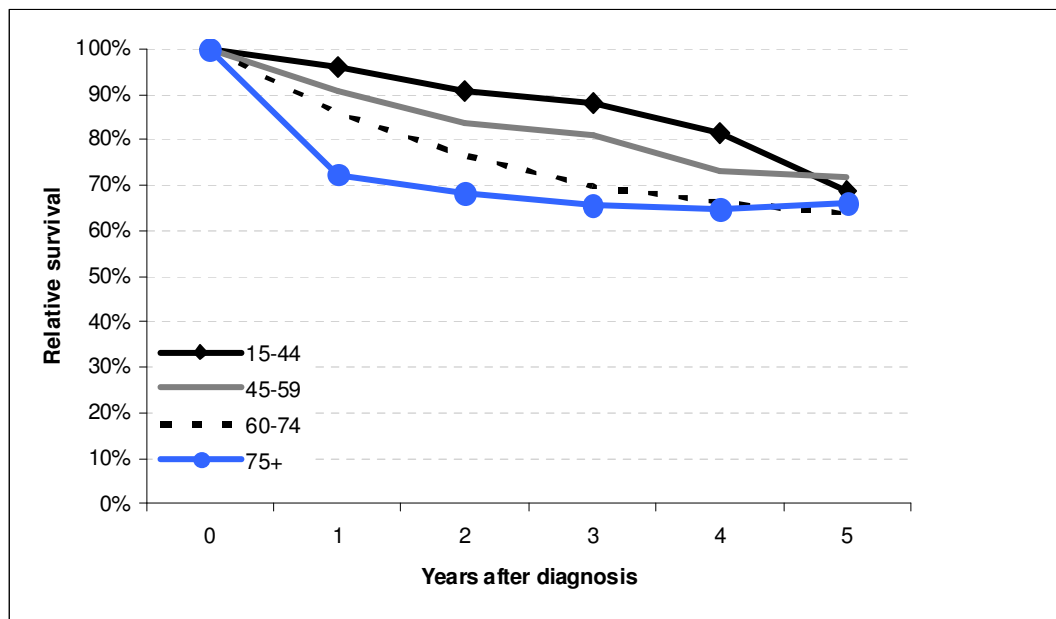
**Table 8: Colorectal cancer, survival by years after diagnosis, sex and age group, ACT, 2000-2004 and for selected years after 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			84	(81-86)
2			77	(73-80)
3			72	(69-76)
4			68	(64-72)
5			66	(63-70)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	879	321	66	(63-70)
<b>Sex</b>				
Male	488	191	63	(58-68)
Female	391	130	71	(65-76)
<b>Age at diagnosis</b>				
15-44	51	10	69	(52-81)
45-59	218	55	72	(65-78)
60-74	355	129	64	(58-69)
75+	255	127	67	(57-75)
<b>Stage</b>				
Localised	258	36	96	(90-100)
Regional	391	136	69	(64-75)
Distant	162	121	9	(5-16)
Unknown	68	28	63	(49-76)
<b>Selected period</b>				
1995-1999			64	(60-69)
2000-2004			69	(64-72)

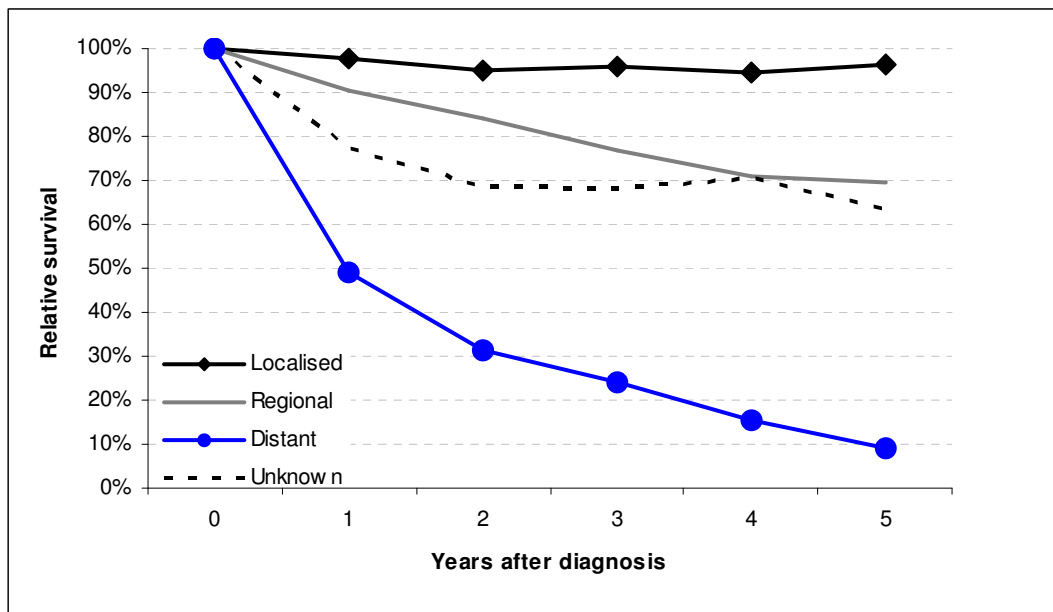
**Figure 25: Colorectal cancer, survival by sex, ACT, 2000-2004.**



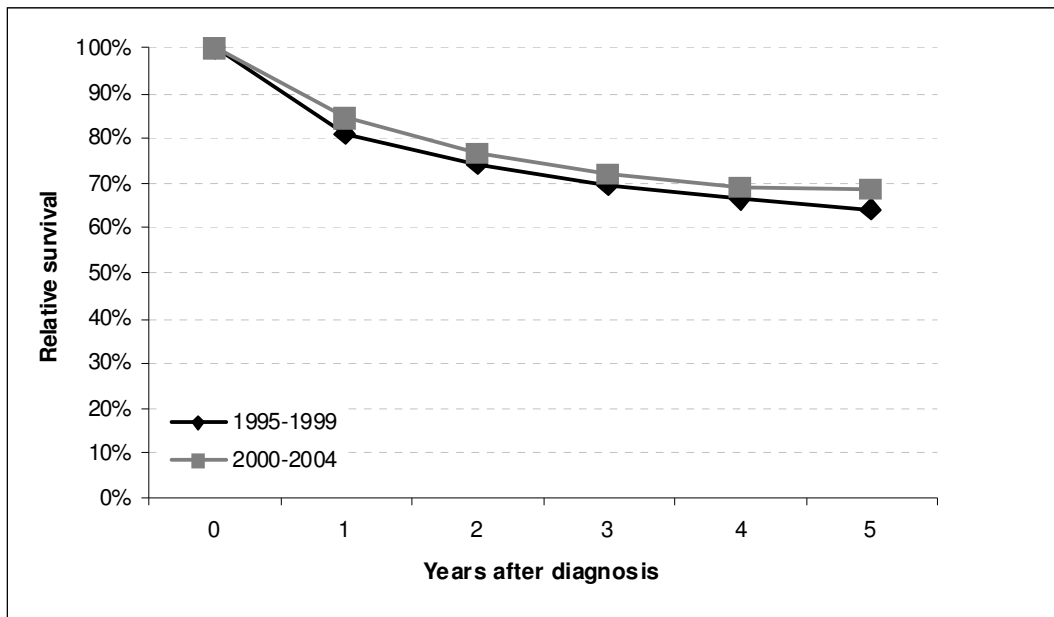
**Figure 26: Colorectal cancer, survival by age group, ACT, 1995-2004.**



**Figure 27: Colorectal cancer, survival by stage, ACT, 2000-2004.**



**Figure 28: Colorectal cancer, survival by period, ACT, 1995-2004.**



## Female breast

The **5-year survival** for women with breast cancer was 91%.

**Age at diagnosis:** The majority of cases (72%) were aged 45-74 years. There was little difference in 5-year survival among age groups.

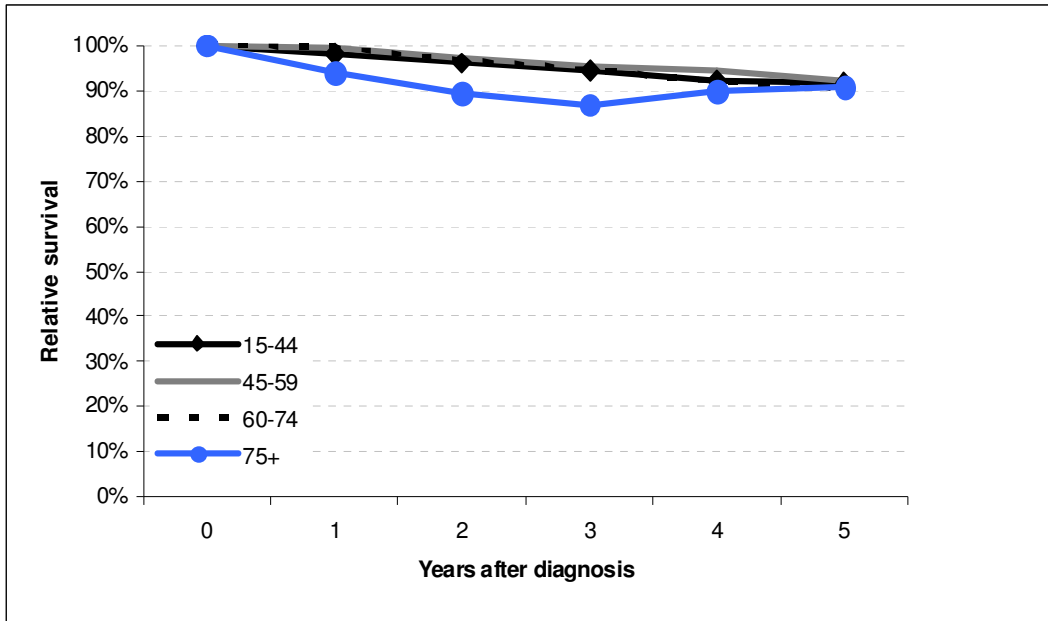
**Stage:** The majority of cases (88%) were of localised or regional stage. Persons diagnosed with more advanced cancers (distant metastasis) experienced a lower survival (40%) compared to those persons with localised spread (98%).

**Time trends:** There was a significant improvement in breast cancer survival over the two five year periods from 87% (1995-1999) to 92% (2000- 2004).

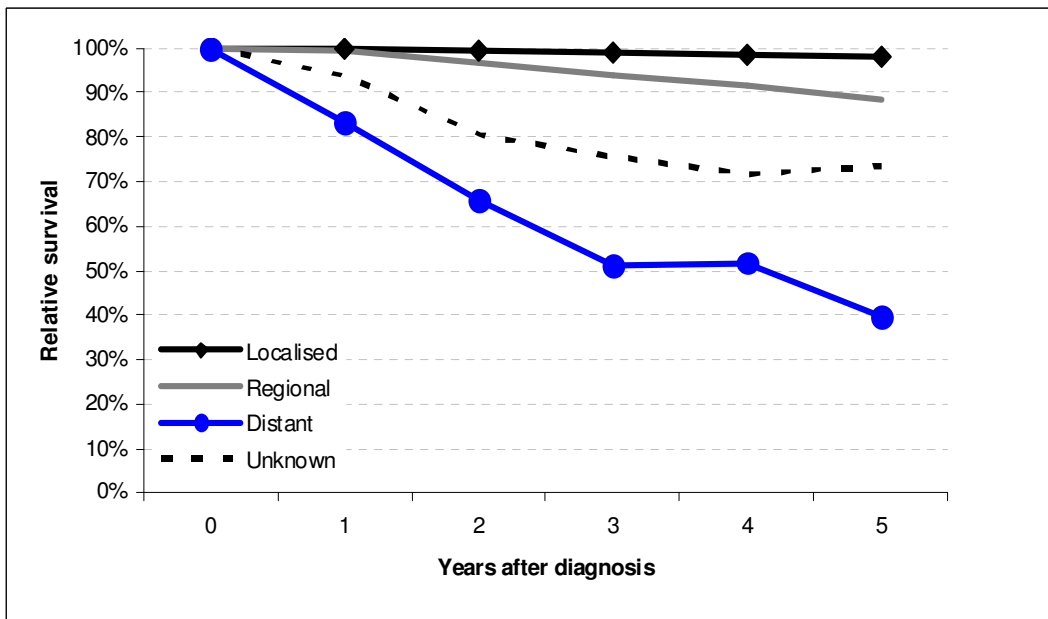
**Table 9: Breast cancer, female, survival by years after diagnosis, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			99	(97-99)
2			96	(94-97)
3			94	(92-95)
4			93	(91-95)
5			91	(89-93)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	1078	116	91	(89-93)
<b>Age at diagnosis</b>				
15-44	161	12	92	(86-95)
45-59	496	36	92	(89-95)
60-74	277	32	90	(85-95)
75+	144	36	91	(78-100)
<b>Stage</b>				
Localised	570	34	98	(95-100)
Regional	379	39	88	(84-92)
Distant	44	19	40	(19-60)
Unknown	85	24	73	(60-85)
<b>Selected period</b>				
1995-1999			87	(84-89)
2000-2004			92	(89-94)

**Figure 29: Breast cancer, female, survival by age group, ACT, 2000-2004.**

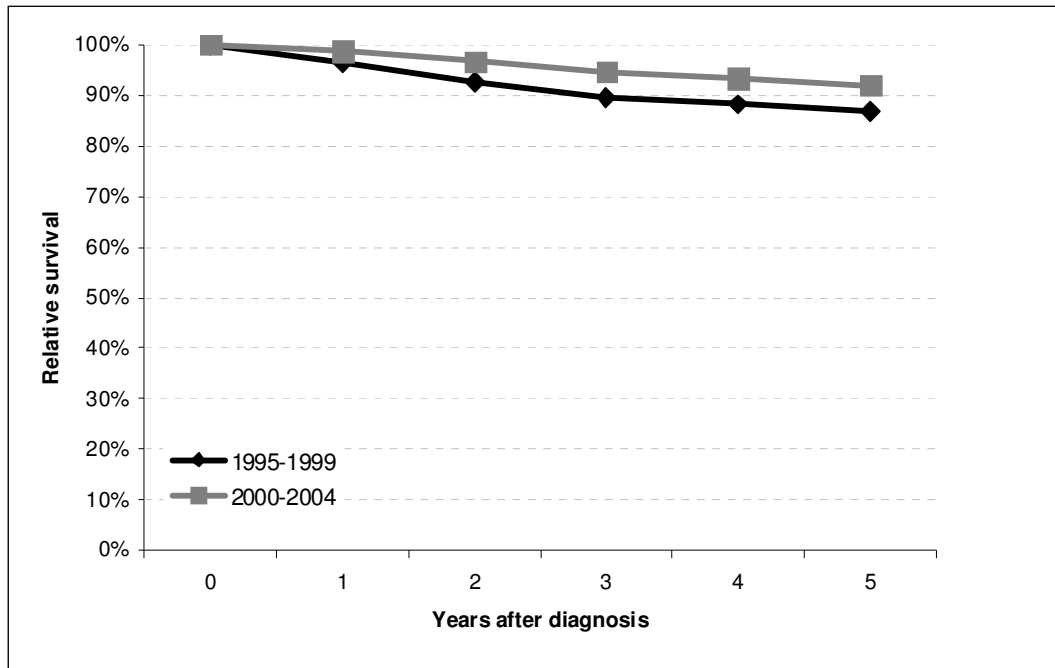


**Figure 30: Breast cancer, female, survival by stage, ACT, 2000-2004.**





**Figure 31: Breast cancer, female, survival by period, ACT, 1995-2004.**



## Head and neck

The 5-year survival for persons with cancer of head and neck was 54%.

**Sex:** Survival was higher for females (65%) than for males (49%).

**Age at diagnosis:** Older age at diagnosis showed poorer survival. Rates dropped from 89% for persons aged 15-44 years to 25% for persons over 75 years.

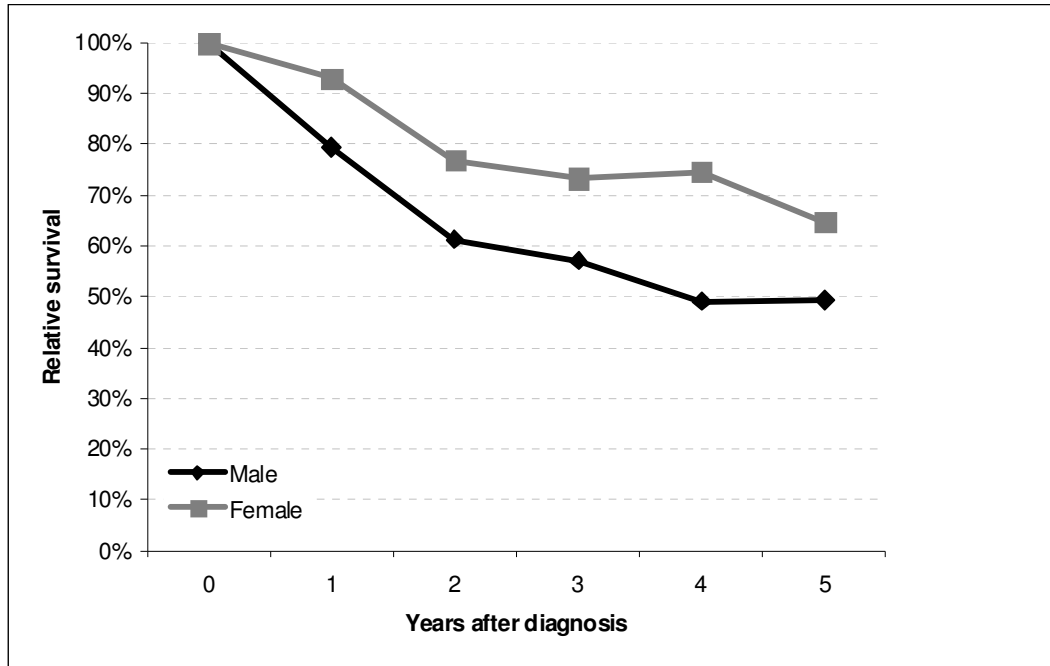
**Stage:** The majority of the cases (76%) were of localised or regional stage. Persons diagnosed with more advanced cancers such as distant metastasis had lower survival rates (43%) compared to those with localised spread (66%).

**Time trends:** Although survival appeared to decrease over the two five year periods from 62% (1995-1999) to 58% (2000-2004) this decrease is not statistically significant.

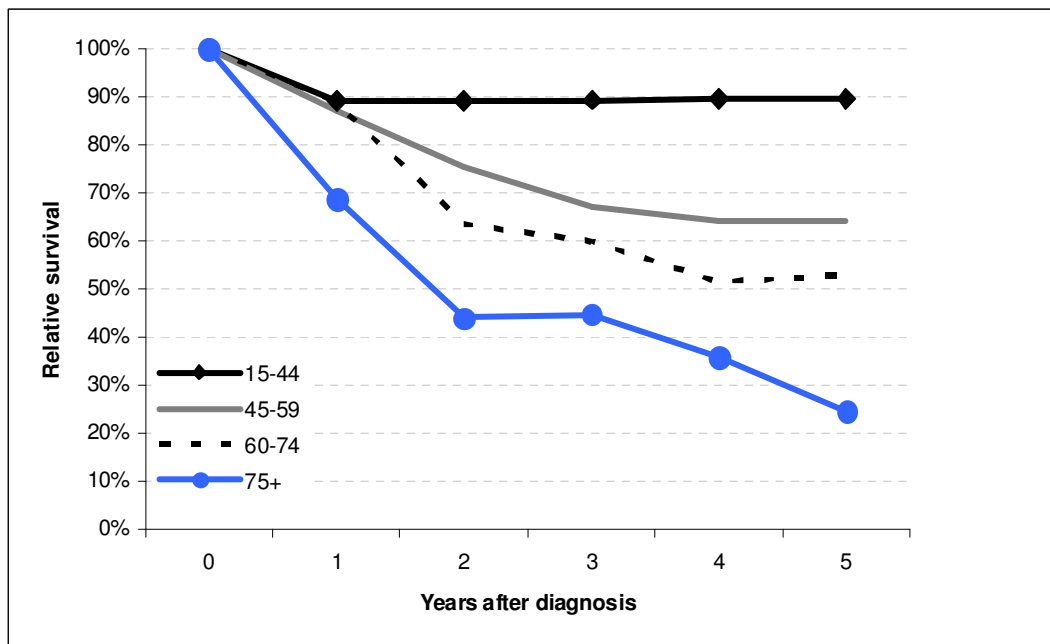
**Table 10: Cancer of head and neck, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			84	(77-89)
2			66	(58-73)
3			62	(54-69)
4			56	(48-64)
5			54	(46-62)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	157	77	54	(46-62)
<b>Sex</b>				
Male	105	60	49	(40-58)
Female	52	17	65	(49-78)
<b>Age at diagnosis</b>				
15-44	11	1	89	(38-99)
45-59	62	22	64	(51-75)
60-74	53	23	53	(37-67)
75+	29	30	25	(12-41)
<b>Stage</b>				
Localised	69	28	66	(53-77)
Regional	50	25	45	(30-59)
Distant	11	5	43	(13-71)
Unknown	27	19	43	(27-60)
<b>Selected period</b>				
1995-1999			62	(52-71)
2000-2004			58	(48-67)

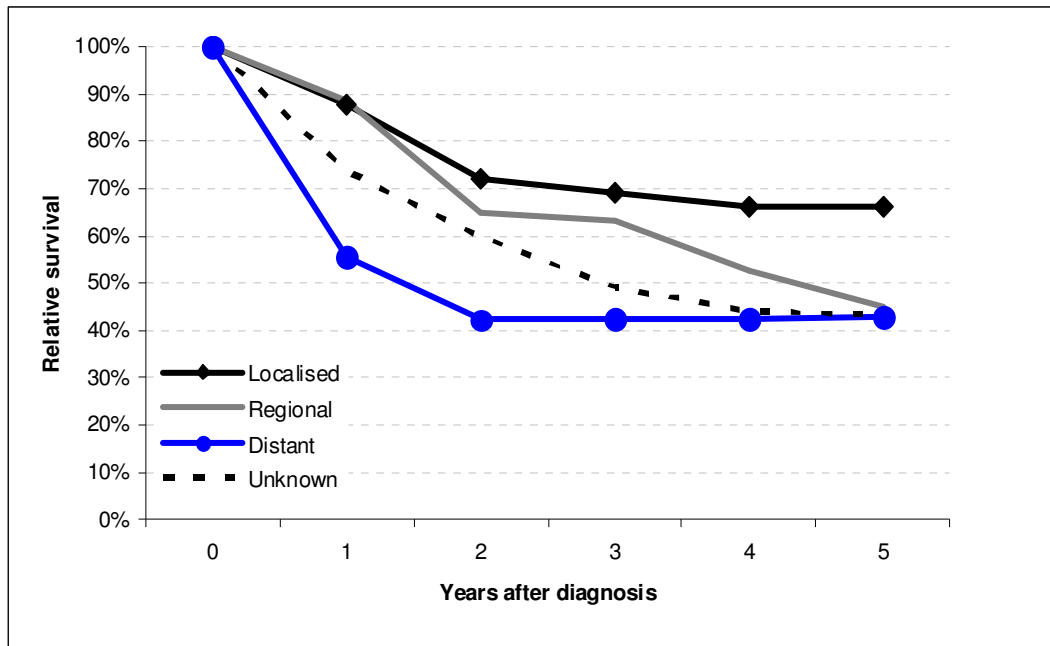
**Figure 32: Cancer of head and neck, survival by sex, ACT, 2000-2004.**



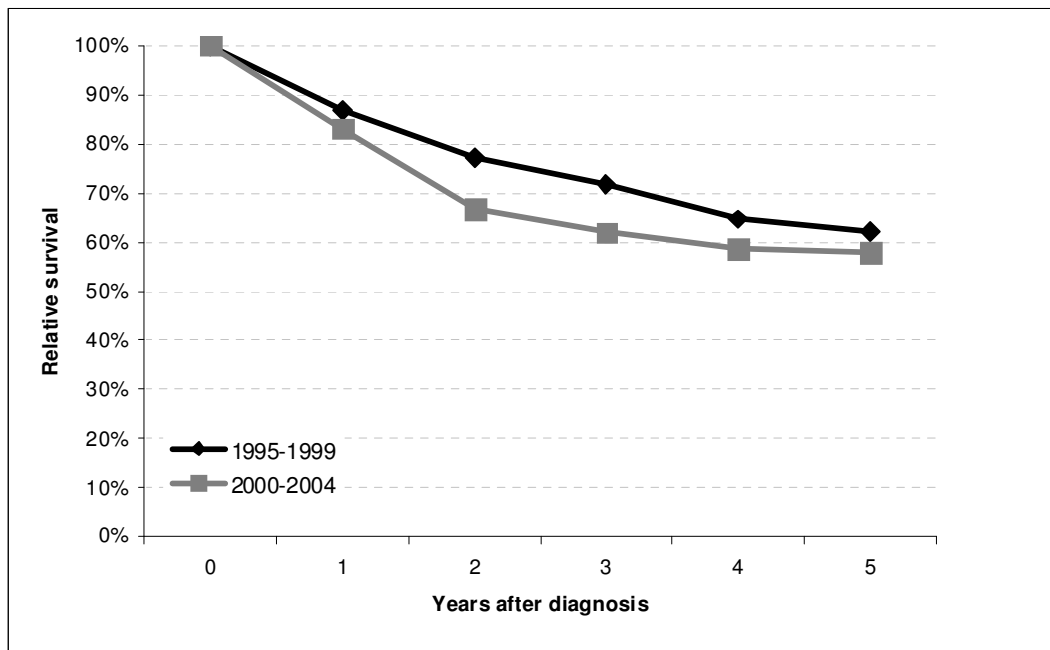
**Figure 33: Cancer of head and neck, survival by age group, ACT, 2000-2004.**



**Figure 34: Cancer of head and neck, survival by stage, ACT, 2000-2004.**



**Figure 35: Cancer of head and neck, survival by period, ACT, 1995-2004.**



## Kidney

**The 5-year survival** for persons with cancer of the kidney was 68%.

**Sex:** Survival appeared to be higher for males (73%) than females (61%). Females with kidney cancer tended to be older at diagnosis and have more advanced cancer than males. These factors would have contributed to the lower survival in females.

**Age at diagnosis:** Older age at diagnosis showed lower survival. Survival decreased from 86% for persons aged 15-44 years to 40% for persons aged over 75 years.

**Stage:** A large proportion of cases (58%) were of localised stage. Persons diagnosed with more advanced cancers experienced a lower survival (46%) compared to those with more localised spread (94%). Persons with distant metastasis all died within three years of diagnosis.

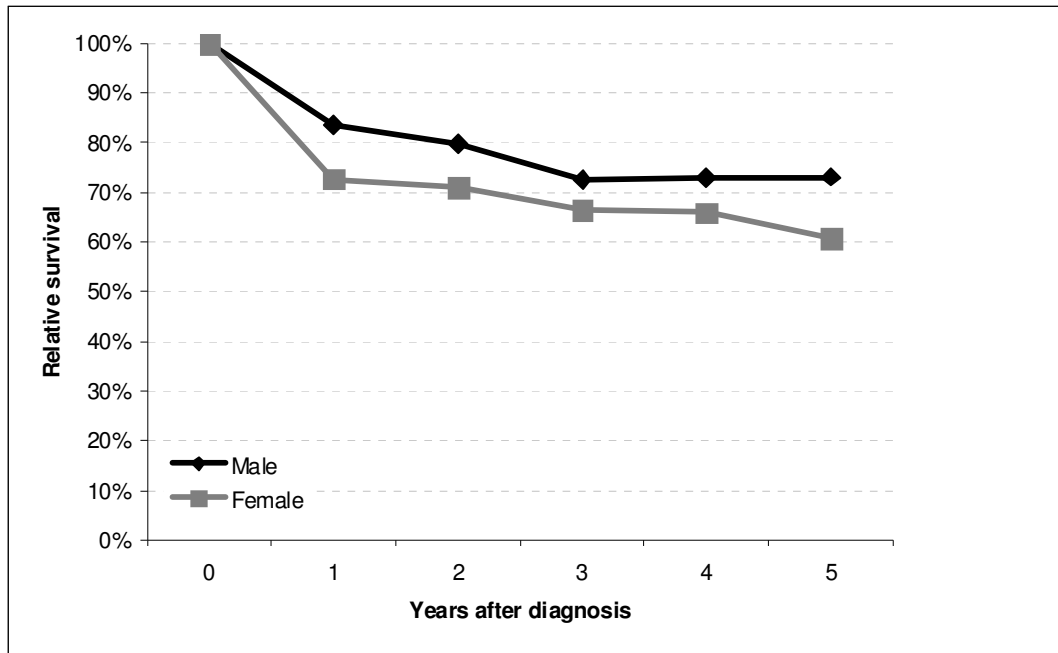
**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

**Table 11: Kidney cancer, survival by years after diagnosis, by sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

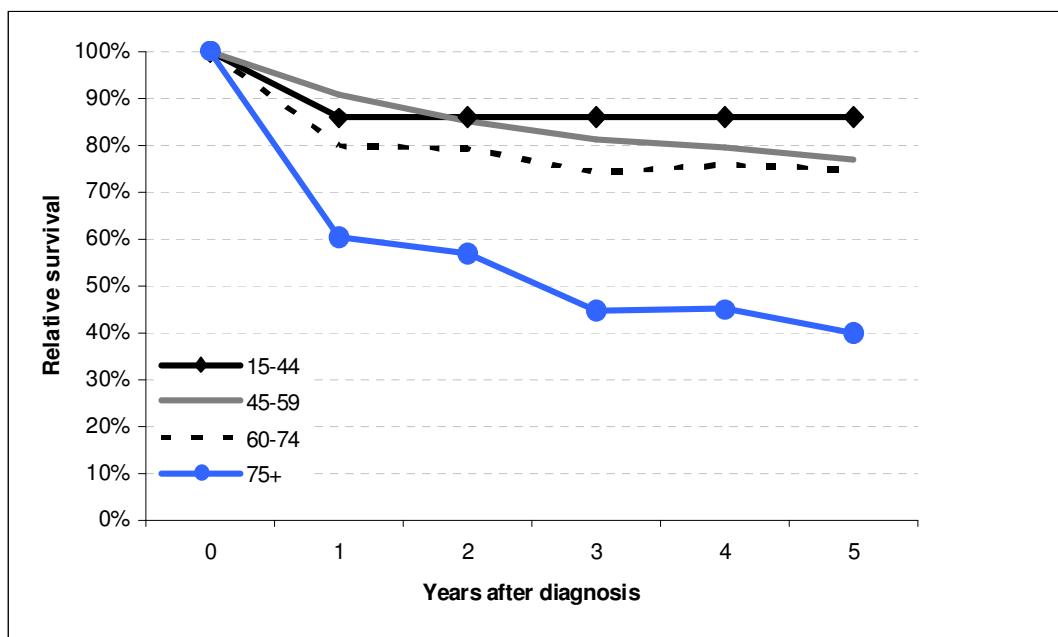
Years after diagnosis			Survival (%)	95% confidence interval
1			79	(72-84)
2			76	(69-82)
3			70	(63-77)
4			70	(62-77)
5			68	(60-75)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	194	63	68	(60-75)
<b>Sex</b>				
Male	116	33	73	(62-82)
Female	78	30	61	(48-72)
<b>Age at diagnosis</b>				
15-44	15	2	86	(56-96)
45-59	55	12	77	(63-87)
60-74	65	17	75	(61-86)
75+	54	32	40	(24-58)
<b>Stage</b>				
Localised	112	13	94	(84-100)
Regional	31	17	46	(27-65)
Distant	25	25	NA	NA
Unknown	26	8	64	(38-83)
<b>Selected period</b>				
1995-1999			61	(51-70)
2000-2004			63	(53-72)

NA: not available

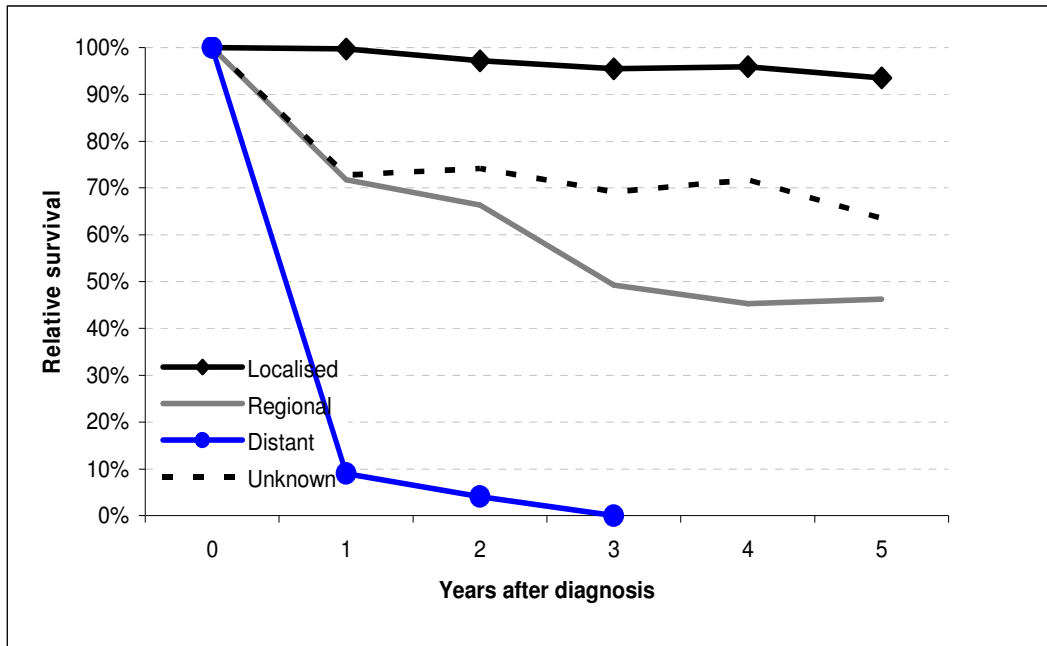
**Figure 36: Kidney cancer, survival by sex, ACT, 2000-2004.**



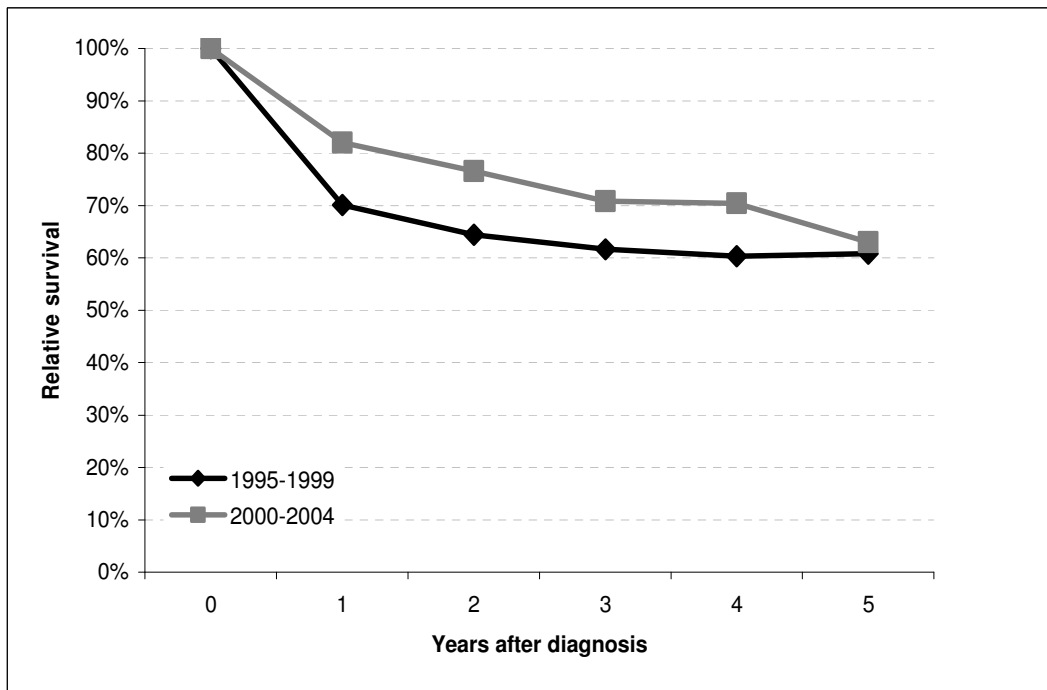
**Figure 37: Kidney cancer, survival by age group, ACT, 2000-2004.**



**Figure 38: Kidney cancer, survival by stage, ACT, 2000-2004.**



**Figure 39: Kidney cancer, survival by period, ACT, 1995-2004.**



## Leukaemia

The 5-year survival for persons with leukaemia was 49%.

**Sex:** Survival was higher for females (57%) than for males (44%).

**Age at diagnosis:** Persons diagnosed at an older age showed lower survival rates, falling from 56% for persons aged 15-44 years to 18% for persons aged over 75 years. Persons aged 45-59 years had a higher survival (64%) compared to other age groups.

**Stage:** Comparison by stage is not possible in this report as most leukaemia cases were of unknown stage of spread.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

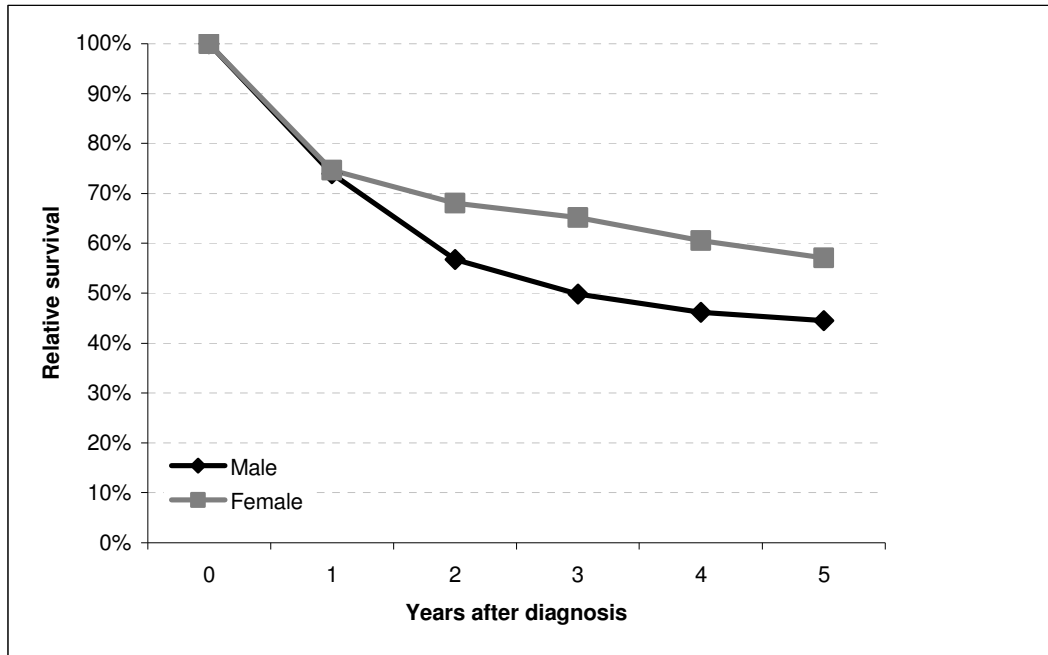
**Table 12: Leukaemia\*, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004.**

Years after diagnosis			Survival (%)	95% confidence interval
1			74	(67-80)
2			61	(53-68)
3			56	(48-63)
4			52	(44-59)
5			49	(41-57)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	171	82	49	(41-57)
<b>Sex</b>				
Male	109	56	44	(35-54)
Female	62	26	57	(44-69)
<b>Age at diagnosis</b>				
15-44	27	12	56	(36-72)
45-59	37	10	64	(45-78)
60-74	35	17	54	(37-69)
75+	54	39	18	(7-35)
<b>Selected period</b>				
1995-1999			51	(42-59)
2000-2004			47	(38-55)

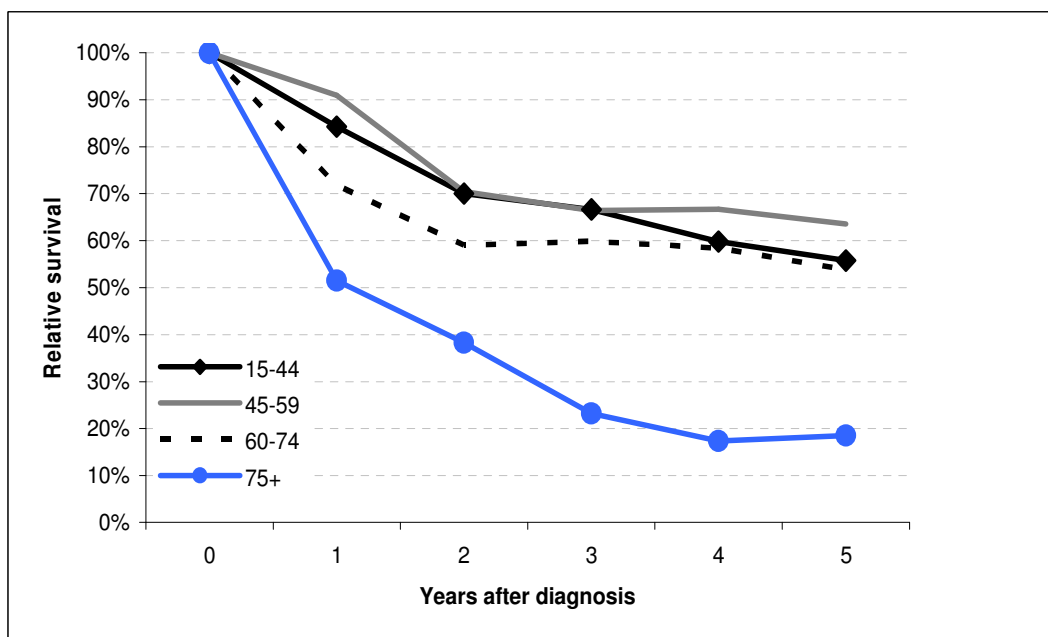
\*ICD 10 codes C91-C95



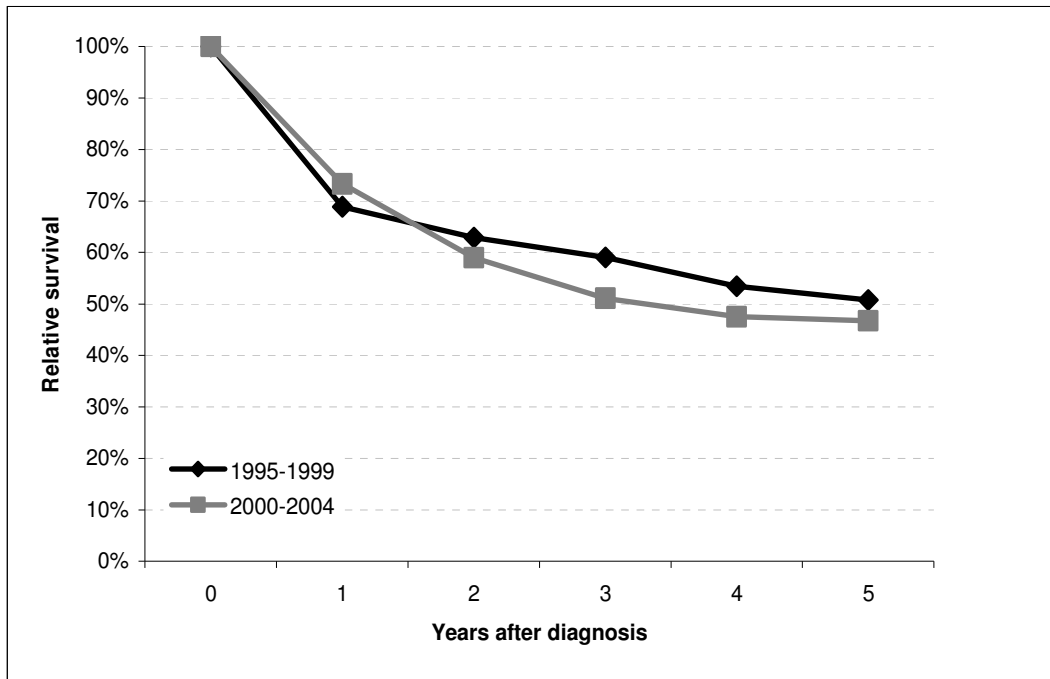
**Figure 40: Leukaemia, survival by sex, ACT, 2000-2004.**



**Figure 41: Leukaemia, survival by age group, ACT, 2000-2004.**



**Figure 42: Leukaemia, survival by period, ACT, 1995-2004.**



## Liver

**The 5-year survival** for persons with liver cancer was 14%. Caution must be taken when interpreting the trends because of small numbers of both cancer cases and deaths. Any gain or loss of cases or deaths could cause a large fluctuation in survival estimation.

**Sex:** The majority of cases (69%) were male. Survival was higher for females (19%) than for males (12%).

**Age at diagnosis:** Persons aged 15-44 years all died within two year after diagnosis, thus 5-year survival is not available for this group.

**Stage:** Persons diagnosed with more advanced cancers experienced a lower survival (6%) compared to those with localised spread (28%).

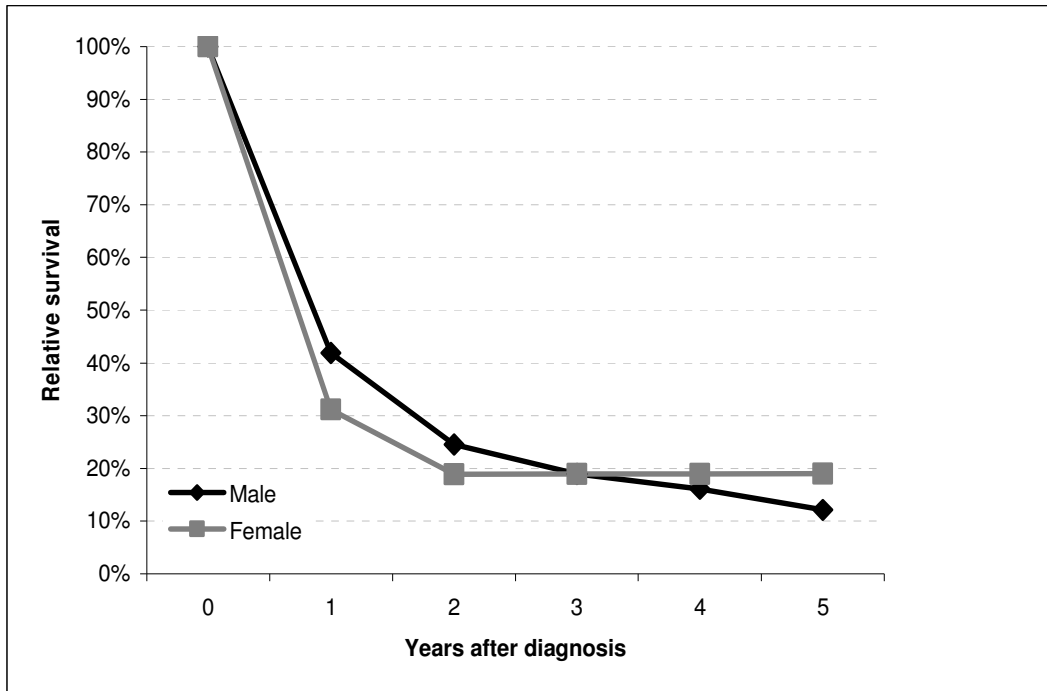
**Time trends:** Survival appeared to improve over the two five year periods from 12% (1995-1999) to 20% (2000-2004), however this change was not statistically significant probably due to low numbers of cases.

**Table 13: Liver cancer, survival by years after diagnosis, sex, age groups and stage, ACT, 2000-2004, and for selected years from 1995.**

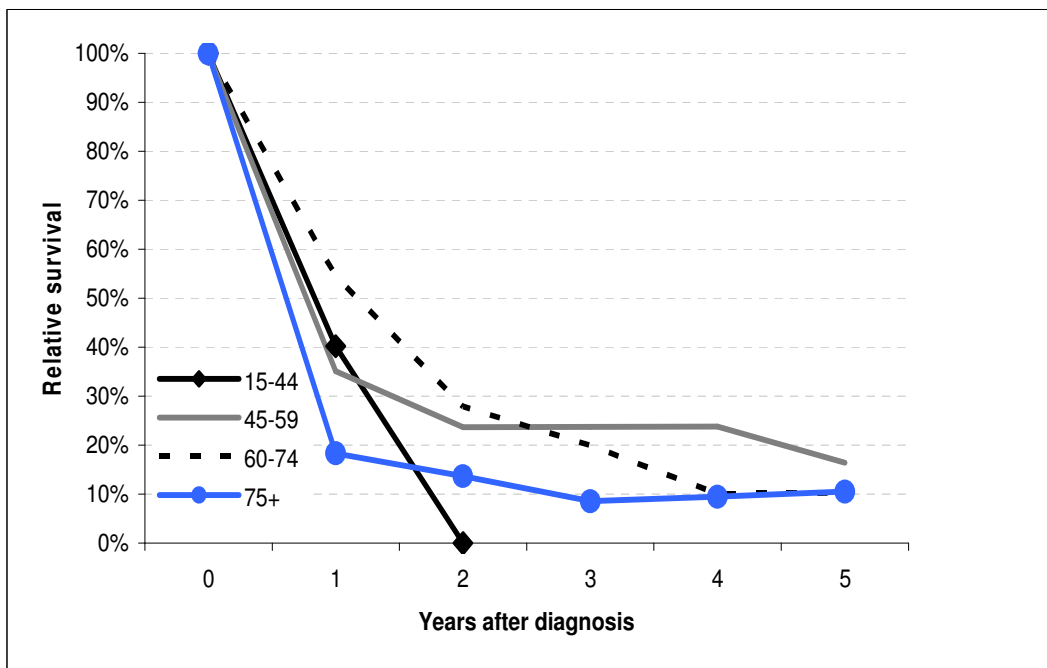
Years after diagnosis			Survival (%)	95% confidence interval
0.5			54	(41-66)
1			39	(27-52)
2			23	(13-35)
3			19	(10-31)
4			17	(9-28)
5			14	(6-26)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	58	44	14	(6-26)
<b>Sex</b>				
Male	40	31	12	(4-27)
Female	18	13	19	(5-40)
<b>Age at diagnosis</b>				
15-44	3	3	NA	NA
45-59	16	13	16	(4-36)
60-74	24	15	10	(1-35)
75+	14	13	11	(1-40)
<b>Stage</b>				
Localised	19	12	28	(9-51)
Regional	7	4	NA	NA
Distant	12	11	6	(0-24)
Unknown	20	17	14	(4-32)
<b>Selected period</b>				
1995-1999			12	(4-26)
2000-2004			20	(10-33)

NA: not available

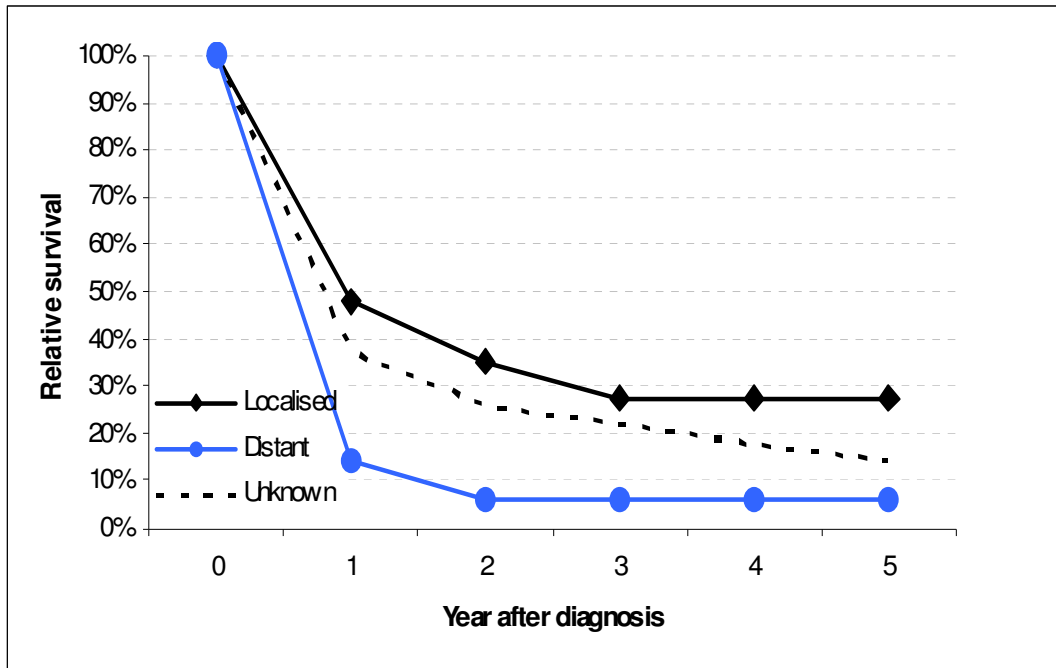
**Figure 43: Liver cancer, survival by sex, ACT, 2000-2004.**



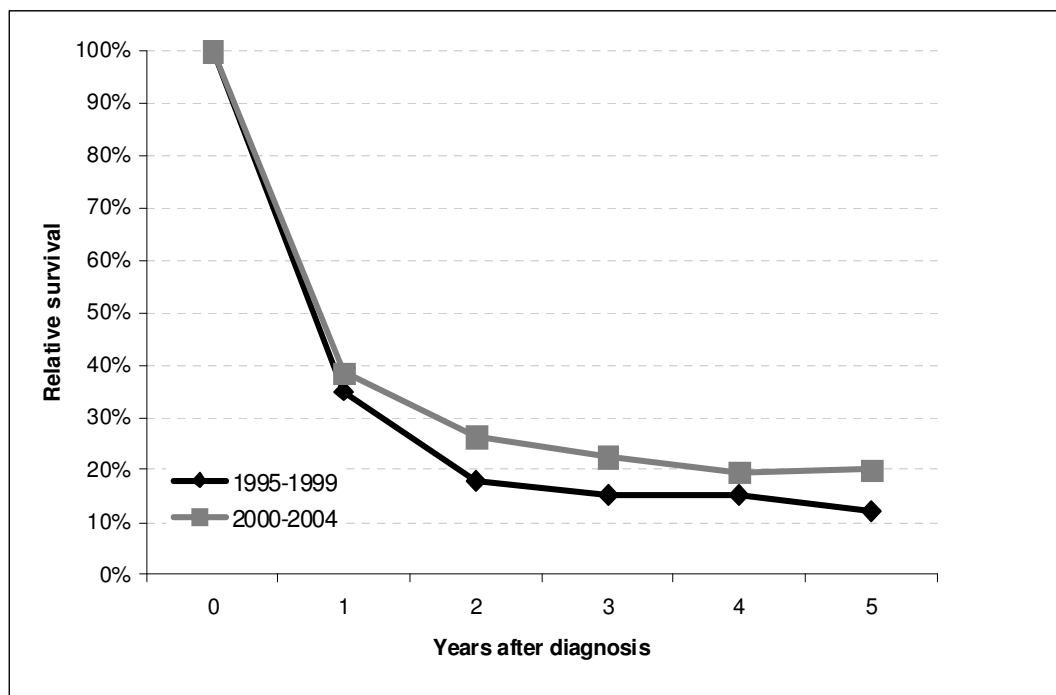
**Figure 44: Liver cancer, survival by age group, ACT, 2000-2004.**



**Figure 45: Liver cancer, survival by stage, ACT, 2000-2004.**



**Figure 46: Liver cancer, survival by period, ACT, 1995-2004.**



## Lung

**The 5-year survival** for persons with lung cancer was 18%.

**Sex:** Survival was higher for females (22%) than for males (16%).

**Age at diagnosis:** The majority of cases (76%) were over 59 years of age. Older age at diagnosis showed lower survival falling from 52% for persons aged 15-44 years to 16% for persons over 75 years.

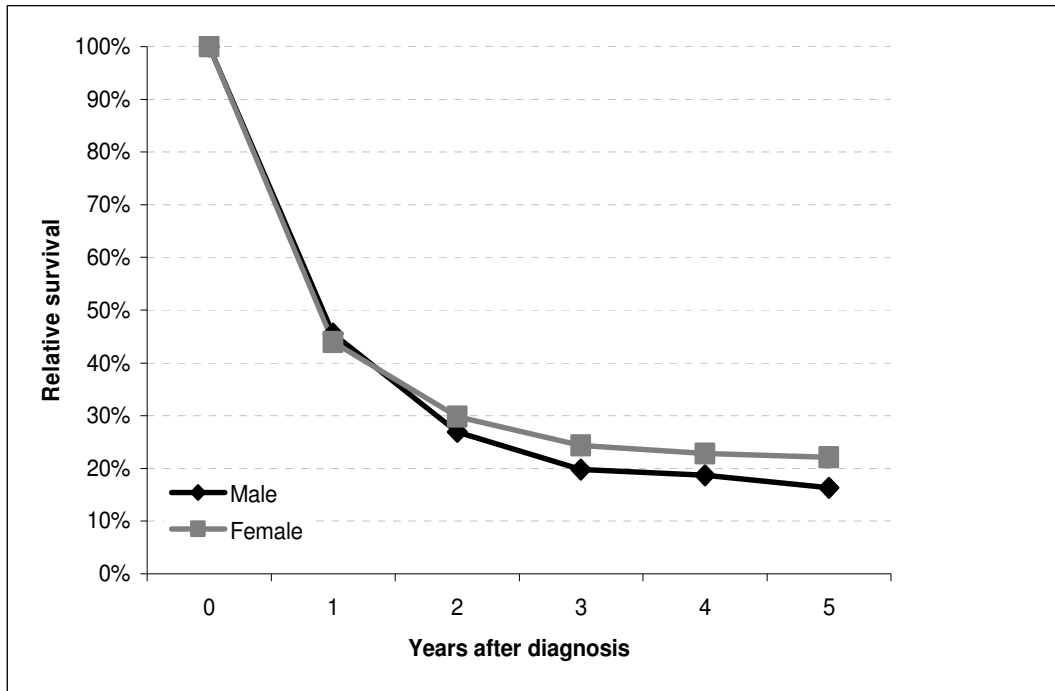
**Stage:** Persons diagnosed with more advanced cancers experienced lower survival. Survival decreased from 49% for persons with localised spread to 1% for those with distant metastasis. About one third (33%) of cases had distant metastasis.

**Time trends:** Survival improved slightly over the two five year periods from 16% (1995-1999) to 22% (2000-2004), although this change was not statistically significant.

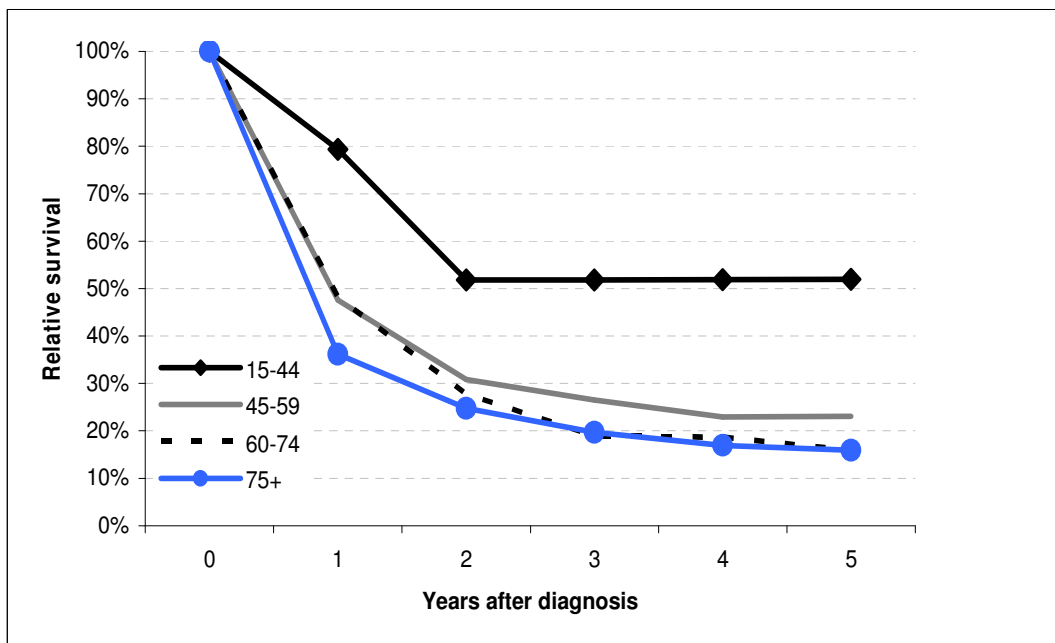
**Table 14: Lung cancer, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			45	(41-50)
2			28	(24-32)
3			21	(17-25)
4			20	(16-24)
5			18	(15-22)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	411	308	18	(15-22)
<b>Sex</b>				
Male	264	204	16	(12-21)
Female	147	104	22	(16-30)
<b>Age at diagnosis</b>				
15-44	10	5	52	(20-77)
45-59	90	58	23	(15-33)
60-74	173	141	16	(11-22)
75+	138	104	16	(9-26)
<b>Stage</b>				
Localised	97	46	49	(38-60)
Regional	86	60	24	(15-34)
Distant	137	123	1	(0-6)
Unknown	91	79	7	(3-13)
<b>Selected period</b>				
1995-1999			16	(12-21)
2000-2004			22	(17-27)

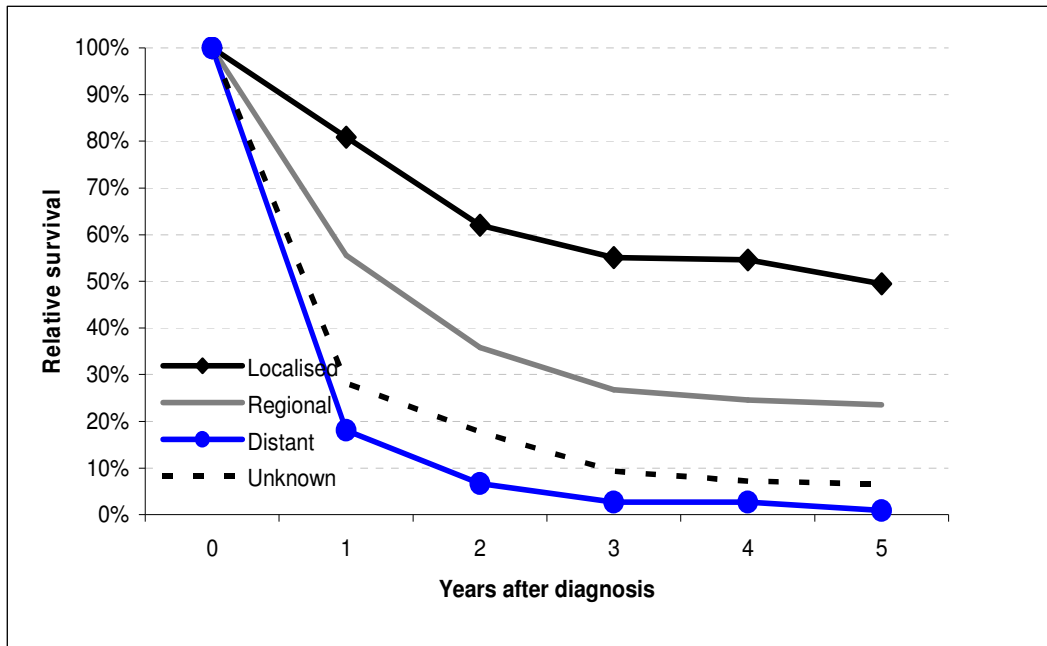
**Figure 47: Lung cancer, survival by sex, ACT, 2000-2004.**



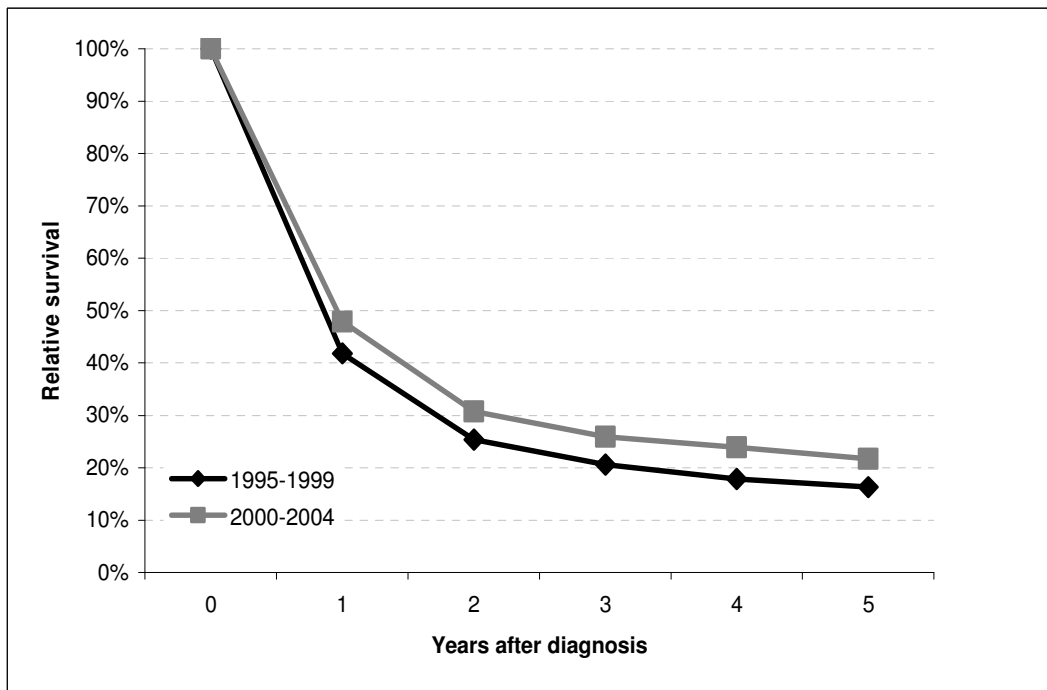
**Figure 48: Lung cancer, survival by age group, ACT, 2000-2004.**



**Figure 49: Lung cancer, survival by stage, ACT, 2000-2004.**



**Figure 50: Lung cancer, survival by period, ACT, 1995-2004.**





## Melanoma

The 5-year survival for persons with melanoma was 92%.

**Sex:** Survival was higher for females (97%) than for males (88%).

**Age at diagnosis:** Persons diagnosed at an older age had poorer survival. Survival fell from 96% for persons aged 15-44 years to 88% for persons aged 60-74 years. The high survival rates for persons over 75 years could be explained by the possible loss to follow up of the death status of some of these persons.

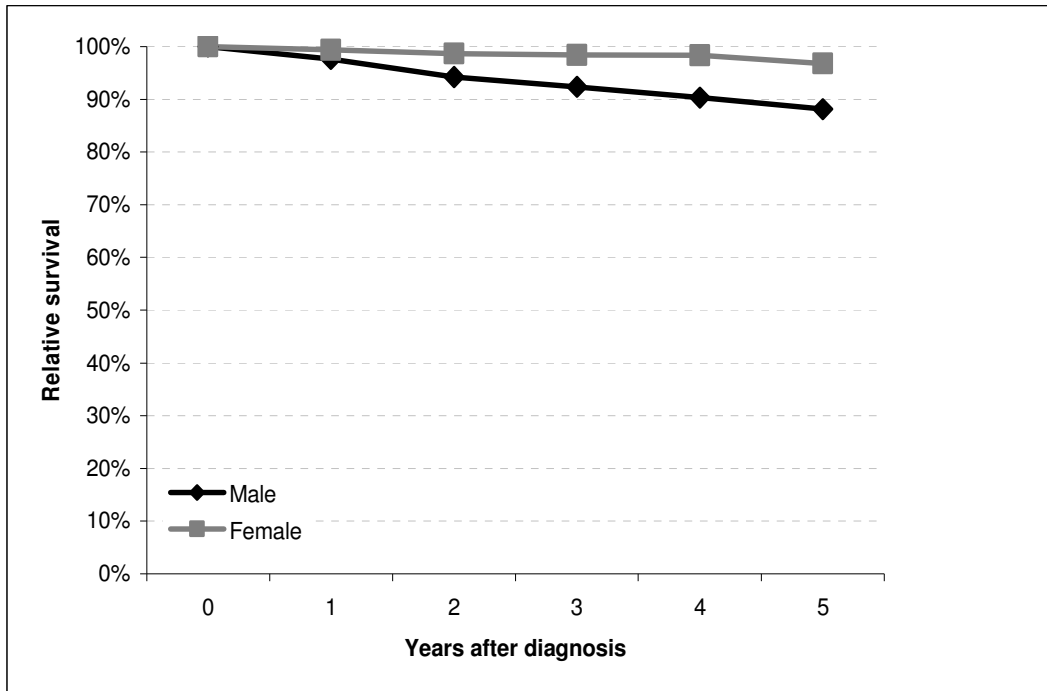
**Stage:** The majority of cases (85%) were of localised stage. Persons diagnosed with more advanced cancers (distant metastasis) experienced significantly lower survival (22%) compared to those with localised spread (97%).

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

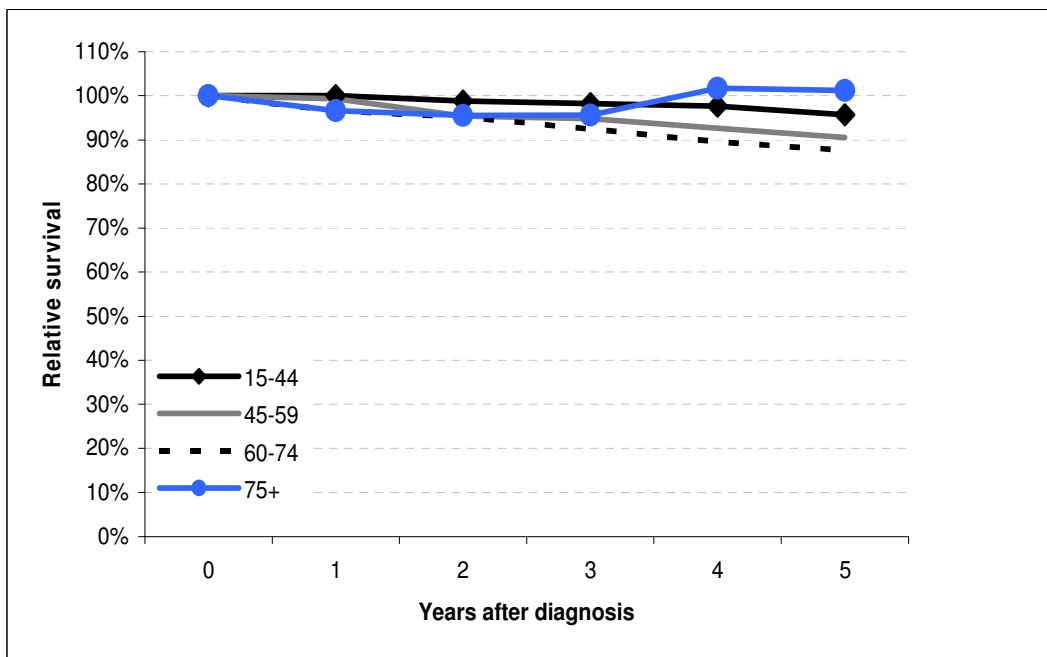
**Table 15: Melanoma, survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			98	(97-99)
2			96	(94-98)
3			95	(93-97)
4			94	(91-96)
5			92	(89-95)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	640	78	92	(89-95)
<b>Sex</b>				
Male	346	55	88	(83-92)
Female	294	23	97	(93-100)
<b>Age at diagnosis</b>				
15-44	164	7	96	(91-98)
45-59	211	22	91	(86-94)
60-74	162	28	88	(80-93)
75+	103	21	101	(83-115)
<b>Stage</b>				
Localised	542	43	97	(94-99)
Regional	40	7	80	(53-97)
Distant	36	23	22	(7-41)
Unknown	22	5	78	(52-93)
<b>Selected period</b>				
1995-1999			91	(88-94)
2000-2004			93	(89-96)

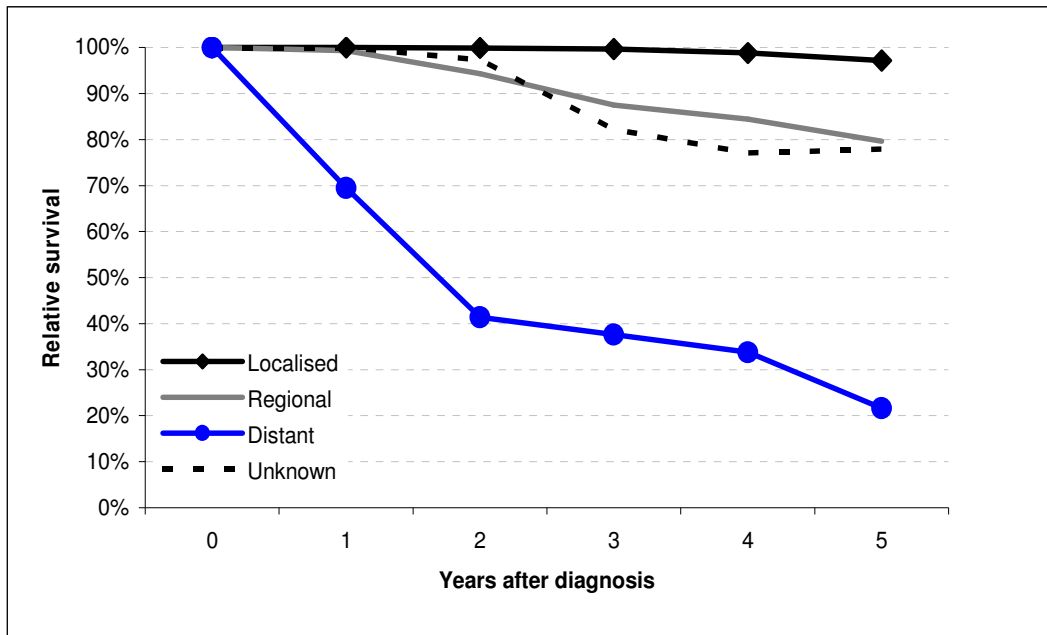
**Figure 51: Melanoma, survival by sex, ACT, 2000-2004.**



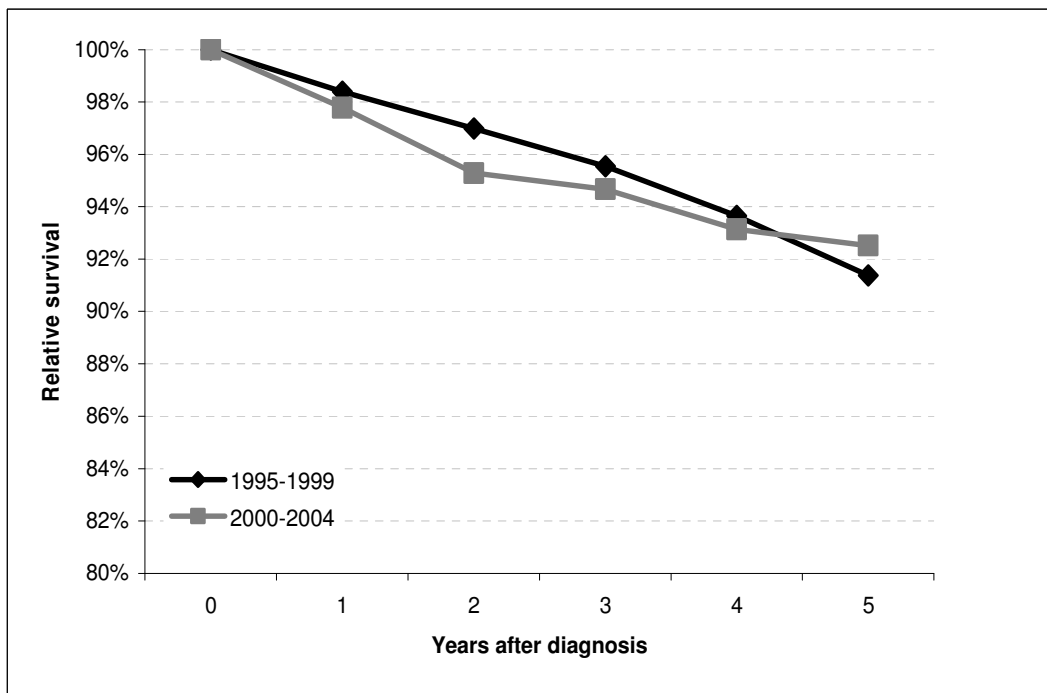
**Figure 52: Melanoma, survival by age group, ACT, 2000-2004.**



**Figure 53: Melanoma, survival by stage, ACT, 2000-2004.**



**Figure 54: Melanoma, survival by period, ACT, 1995-2004.**



## Mesothelioma

**The 5-year survival** for persons with mesothelioma was 14%. This is high compared to other jurisdictions (NSW (5%) and Victoria (6%)). Caution must be taken when interpreting the trends because of small numbers of both cancer cases and deaths. Any gain or loss of cases or deaths could cause a large fluctuation in survival estimation.

**Sex:** Survival estimates were only available for males (15%); 5-year survival for females is not available as all the cases died or were lost to follow up within a year after diagnosis.

**Age at diagnosis:** The effect of age on survival is not clear due to the small numbers of mesothelioma cases.

**Time trends:** The fluctuation in survival over the period of analysis is probably due to low numbers of cases and not indicative on any real trends.

**Table 16: Mesothelioma, survival by year of diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			43	(26-59)
2			22	(10-37)
3			18	(7-34)
4			18	(7-34)
5			14	(4-30)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	32	24	14	(4-30)
<b>Sex</b>				
Male	29	22	15	(4-32)
Female	3	2	NA	NA
<b>Age at diagnosis</b>				
15-44	-	-	-	-
45-59	13	10	13	(1-42)
60-74	15	12	15	(3-38)
75+	4	2	NA	NA
<b>Stage</b>				
Localised	17	15	7	(6-26)
Regional	4	2	NA	NA
Distant	3	1	NA	NA
Unknown	8	6	28	(5-61)
<b>Selected period</b>				
1995-1999			17	(4-38)
2000-2004			11	(2-28)

Figure 55: Mesothelioma, survival of males, ACT, 2000-2004.

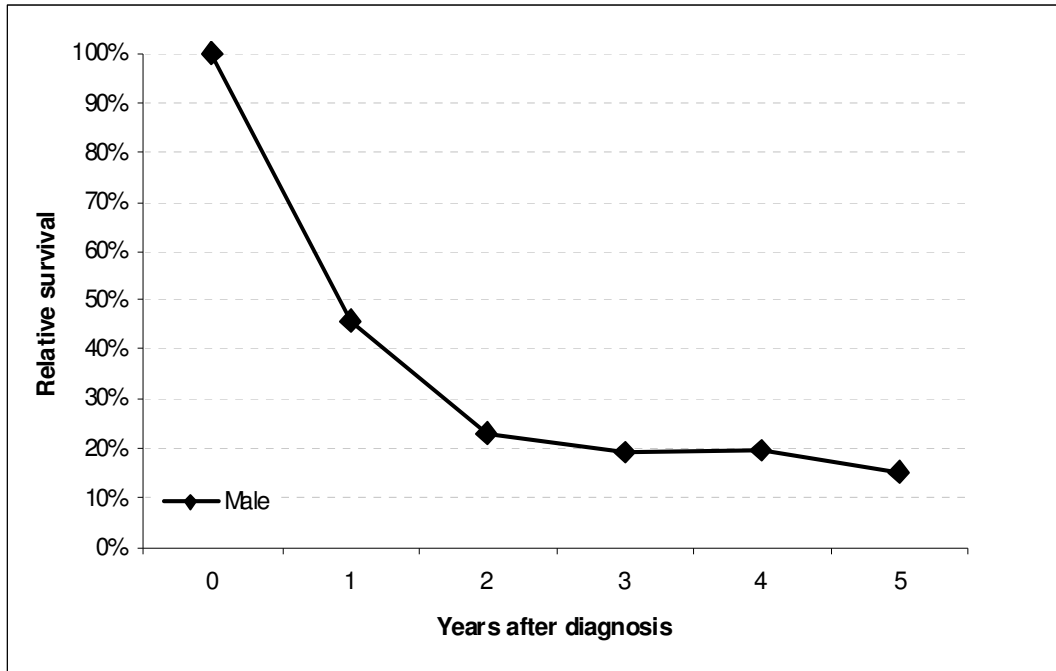
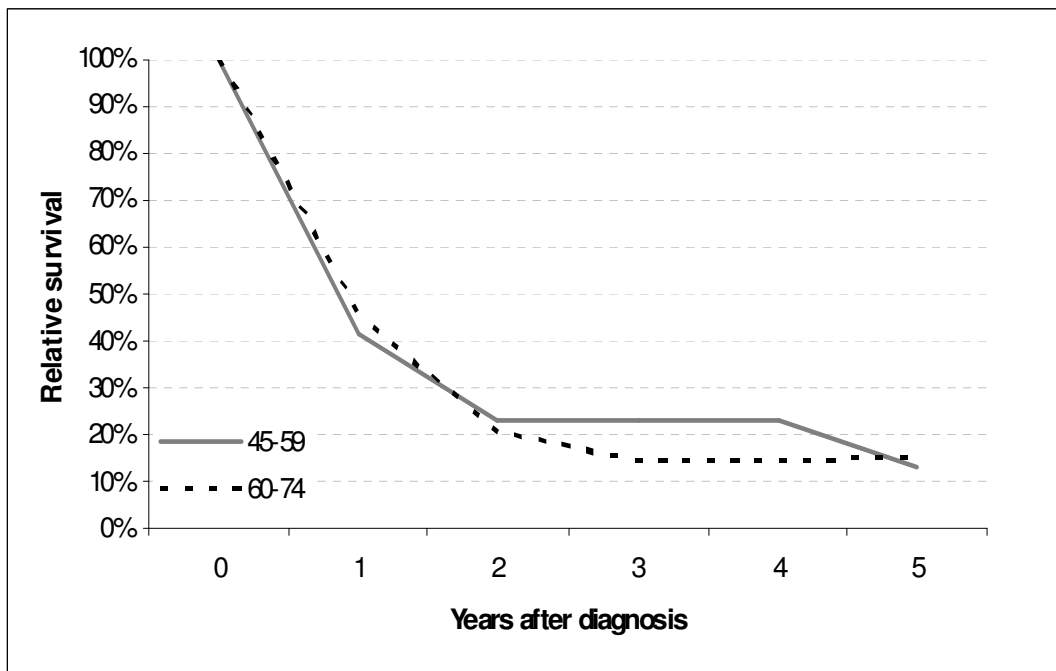
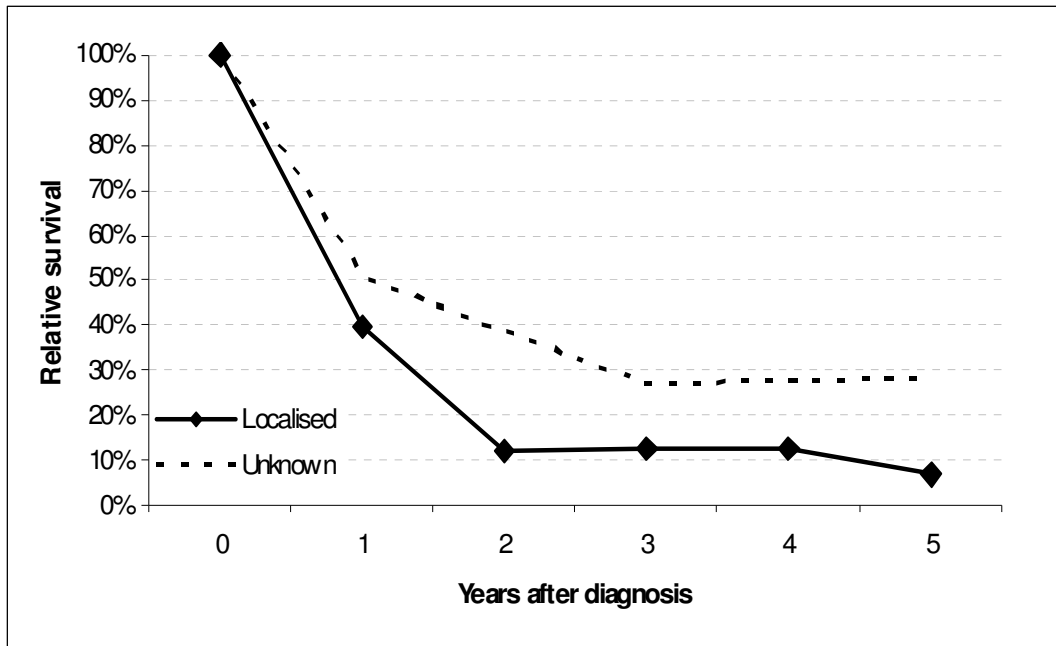


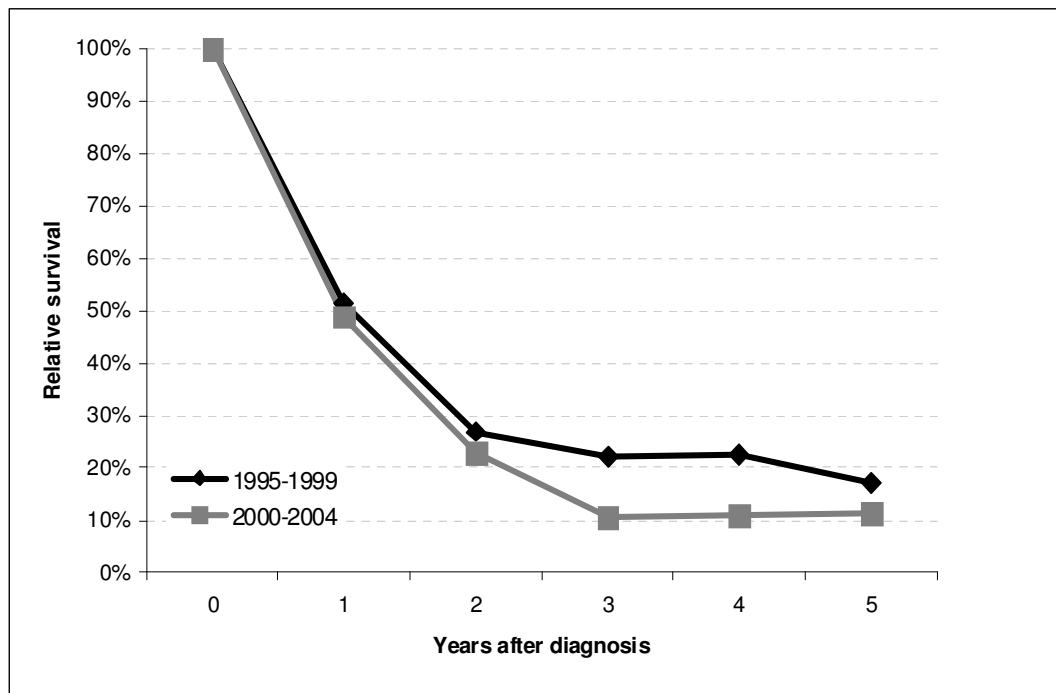
Figure 56: Mesothelioma, survival by age group, ACT, 2000-2004.



**Figure 57: Mesothelioma, survival by stage, ACT, 2000-2004.**



**Figure 58: Mesothelioma, survival by period, ACT, 1995-2004.**



## Non-Hodgkin's lymphoma (NHL)

The **5-year survival** for persons with non-Hodgkin's lymphoma (NHL) was 62%.

**Sex:** Survival was slightly higher for males (63%) than for females (61%).

**Age at diagnosis:** Older age at diagnosis showed lower survival with 84% for persons aged 15-44 years falling to 47% for persons over 75 years.

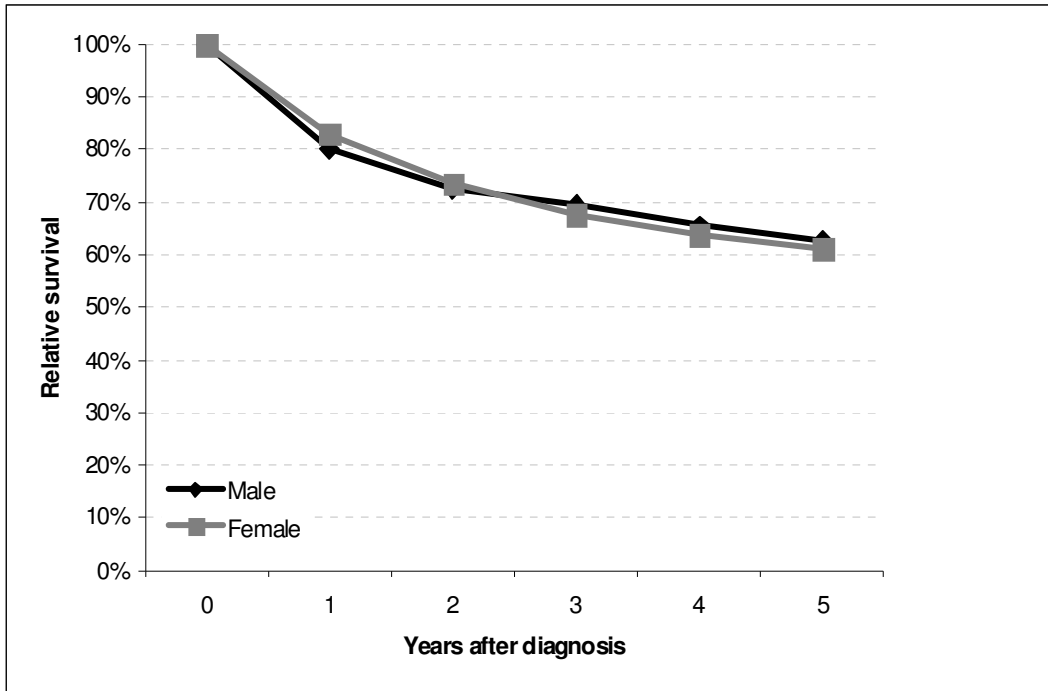
**Stage:** Survival by stage information is not available for NHL.

**Time trends:** Survival improved slightly over the five year periods from 59% (1995-1999) to 63% (2000-2004), however this change was not statistically significant.

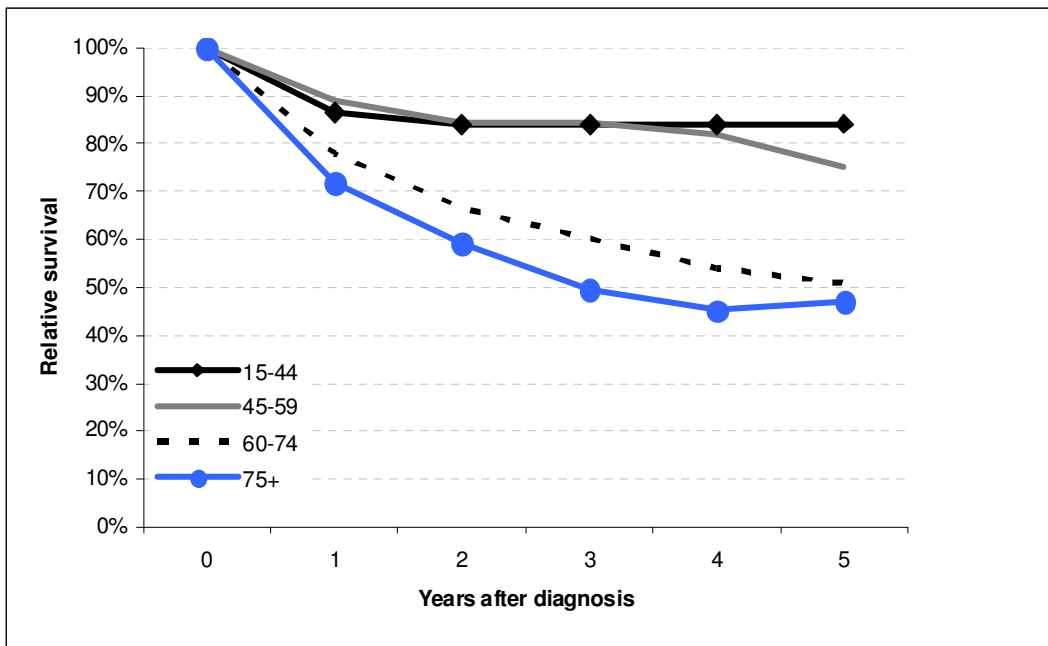
**Table 17: Non-Hodgkin's lymphoma, survival by year of diagnosis, sex, age group and stage, ACT, 2000-2004 and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			81	(76-86)
2			73	(67-78)
3			69	(62-74)
4			65	(58-71)
5			62	(55-68)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	284	107	62	(55-68)
<b>Sex</b>				
Male	168	63	63	(54-71)
Female	116	44	61	(51-70)
<b>Age at diagnosis</b>				
15-44	41	6	84	(69-92)
45-59	70	16	75	(63-84)
60-74	104	47	51	(40-61)
75+	61	38	47	(32-63)
<b>Stage</b>				
Localised	5	1	-	-
Regional	1	0	-	-
Distant	1	0	-	-
Unknown	277	106	62	(55-68)
<b>Selected period</b>				
1995-1999			59	(51-66)
2000-2004			63	(55-70)

**Figure 59: Non-Hodgkin's lymphoma, survival by sex, ACT, 2000-2004.**

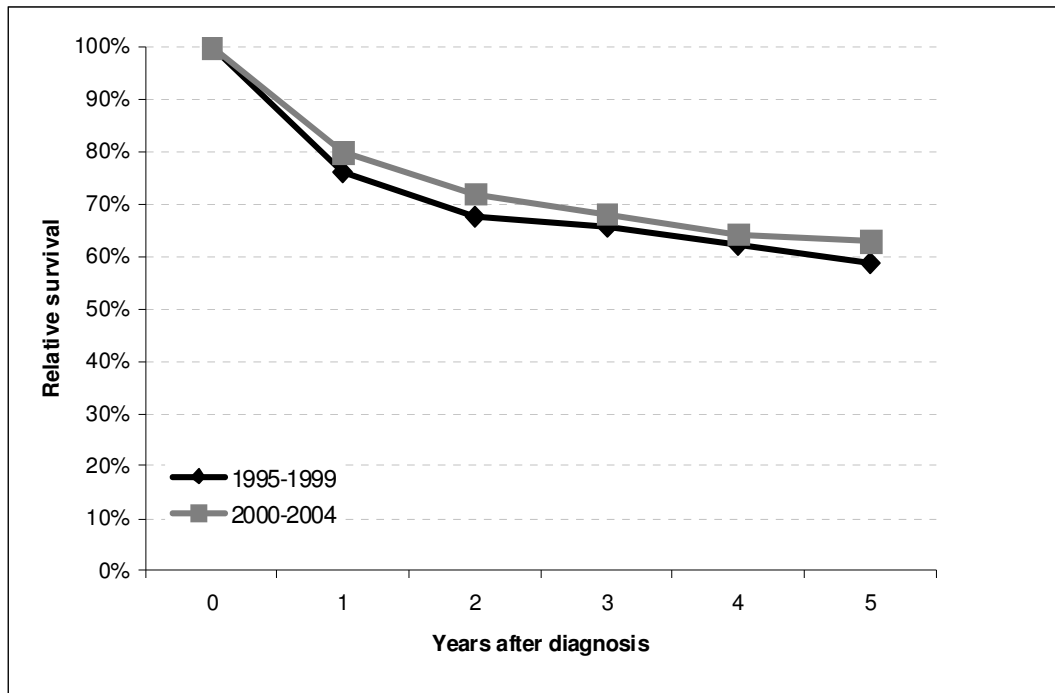


**Figure 60: Non-Hodgkin's lymphoma, survival by age group, ACT, 2000-2004.**





**Figure 61: Non-Hodgkin's lymphoma, survival by period, ACT, 1995-2004.**



## Oesophagus

**The 5-year survival** for persons with oesophageal cancer was 24%. Caution must be taken when interpreting the trends because of small numbers of both cancer cases and deaths. Any gain or loss of cases or deaths could cause a large fluctuation in survival estimation.

**Sex:** Survival was slightly higher for females (27%) than for males (22%).

**Age at diagnosis:** Older age at diagnosis showed lower survival. Survival fell from 72% for persons aged 15-44 years to 17% for persons aged 60 years and over.

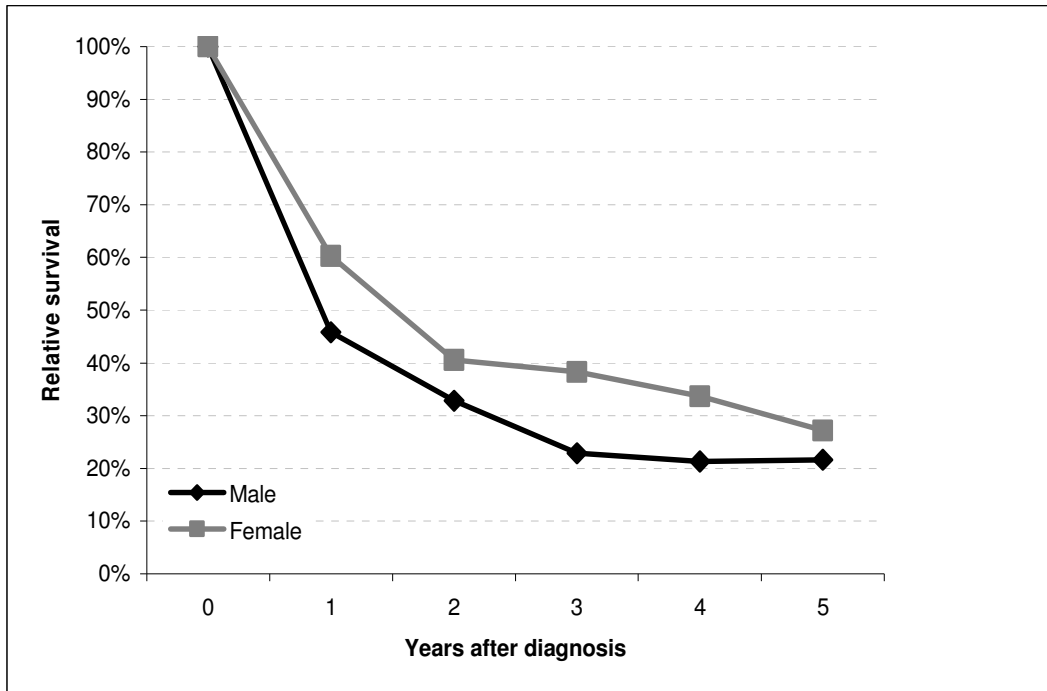
**Stage:** Persons diagnosed with more advanced cancers experienced lower survival (7%) compared to those with localised spread (56%). About 19% of cases had distant metastasis at diagnosis.

**Time trends:** Survival improved over the two five year periods from 18% (1995-1999) to 28% (2000- 2004), however this was not statistically significant due to low numbers.

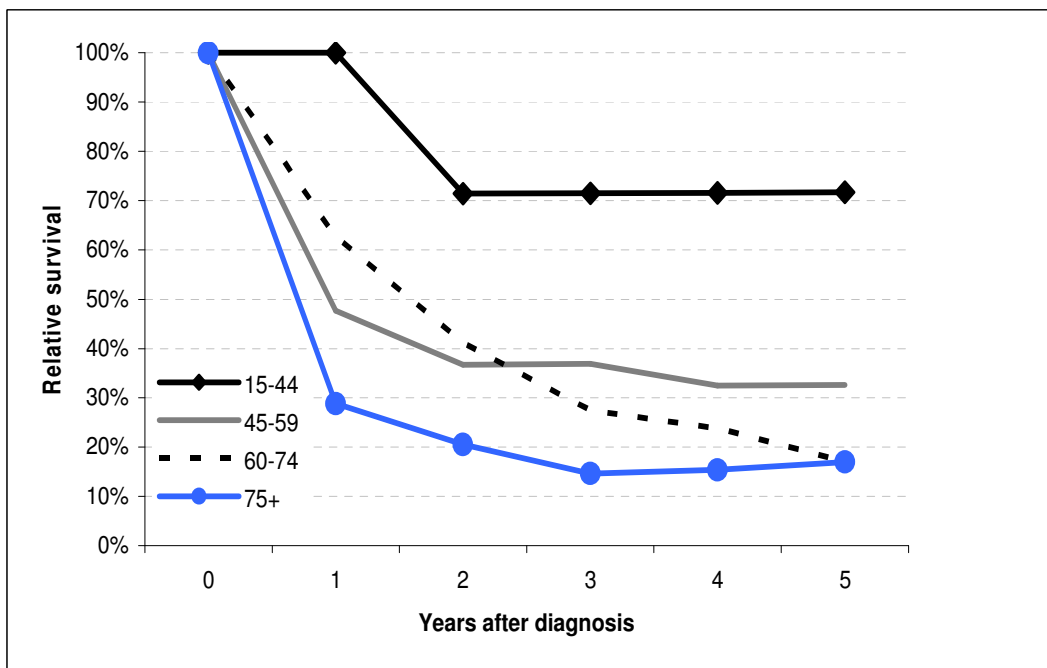
**Table 18: Oesophageal cancer, Survival by years after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			50	(39-61)
2			35	(25-46)
3			28	(19-39)
4			26	(16-36)
5			24	(14-34)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	74	57	24	(14-34)
<b>Sex</b>				
Male	49	39	22	(17-34)
Female	25	18	27	(11-48)
<b>Age at diagnosis</b>				
15-44	3	1	72	(3-97)
45-59	15	11	33	(13-55)
60-74	31	23	17	(6-34)
75+	25	22	17	(5-37)
<b>Stage</b>				
Localised	16	8	56	(28-80)
Regional	22	14	33	(13-56)
Distant	14	13	7	(0-26)
Unknown	22	22	0	-
<b>Selected period</b>				
1995-1999			18	(8-30)
2000-2004			28	(17-40)

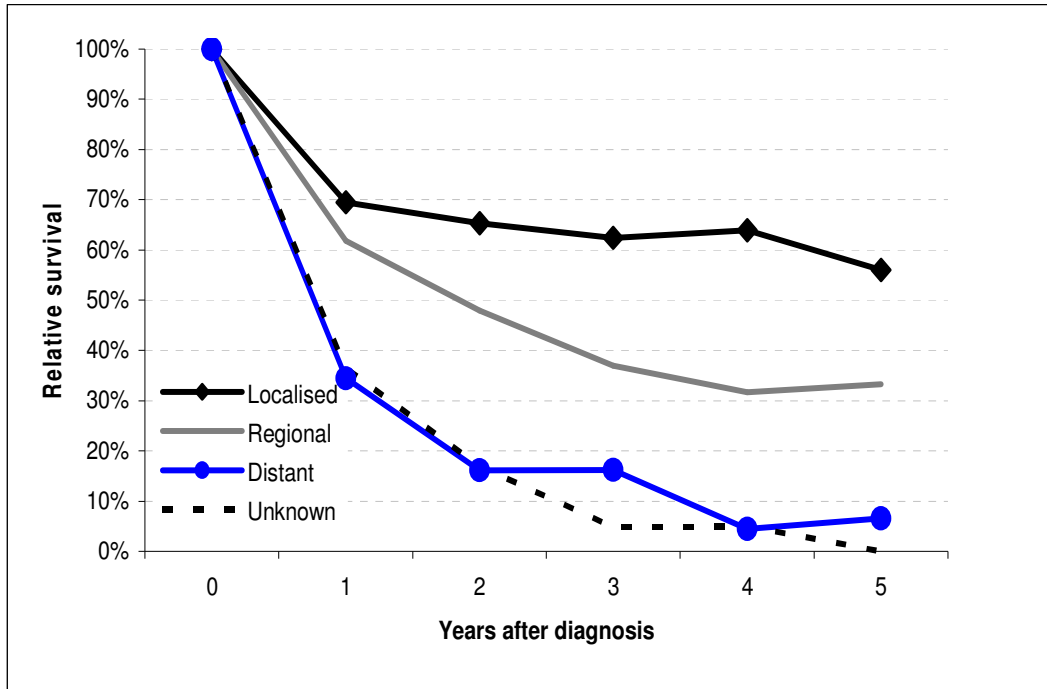
**Figure 62: Oesophageal cancer, survival by sex, ACT, 2000-2004.**



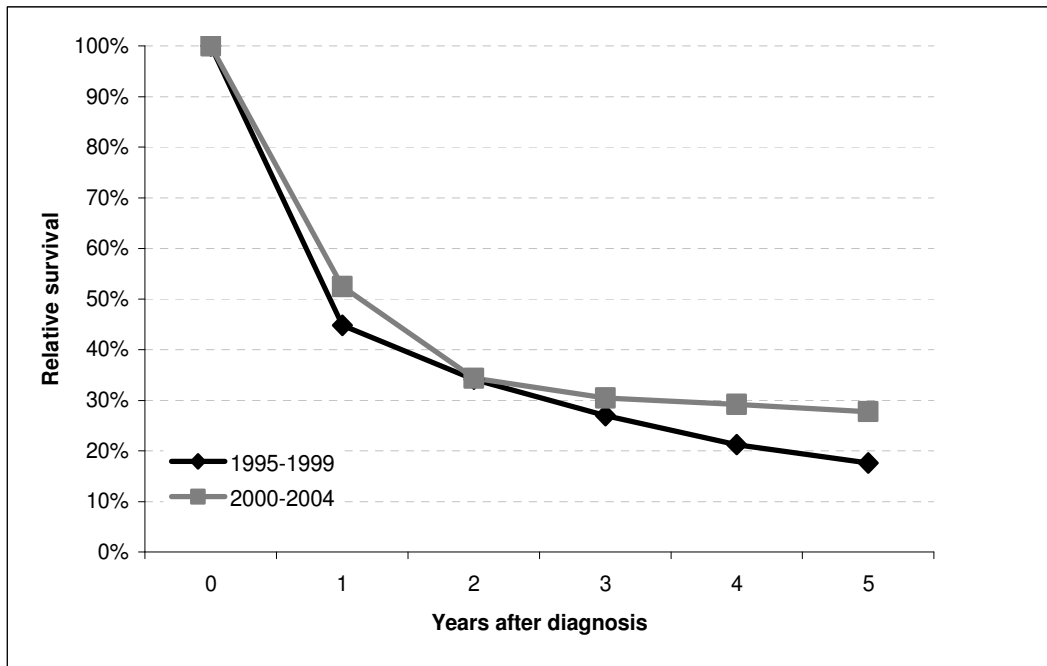
**Figure 63: Oesophageal cancer, survival by age group, ACT, 2000-2004.**



**Figure 64: Oesophageal cancer, survival by stage, ACT, 2000-2004.**



**Figure 65: Oesophageal cancer, survival by period, ACT, 1995-2004.**



## Ovary

The **5-year survival** for women with ovarian cancer was 44%.

**Age at diagnosis:** Older age at diagnosis was associated with lower survival falling from 59% for women aged 15-44 years to 18% for women over 75 years.

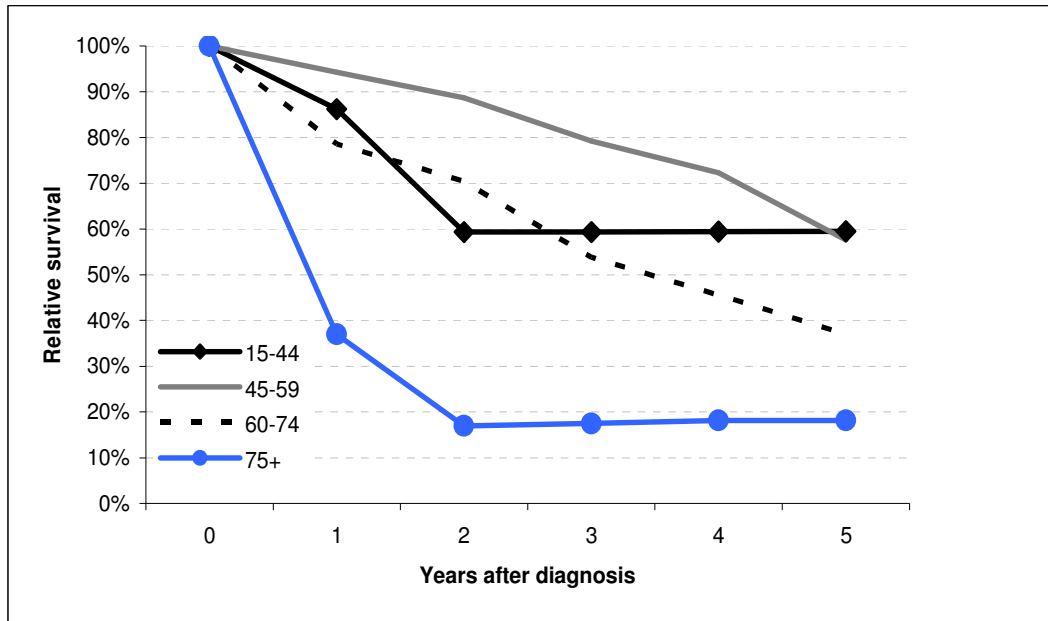
**Stage:** Survival decreased from 90% for women with localised spread to 13% for those with distant metastasis. Almost half of the cases (49%) had distant metastasis at diagnosis.

**Time trends:** Survival improved over the two five year periods from 39% (1995-1999) to 51% (2000- 2004), however this was not statistically significant due to low numbers of cases.

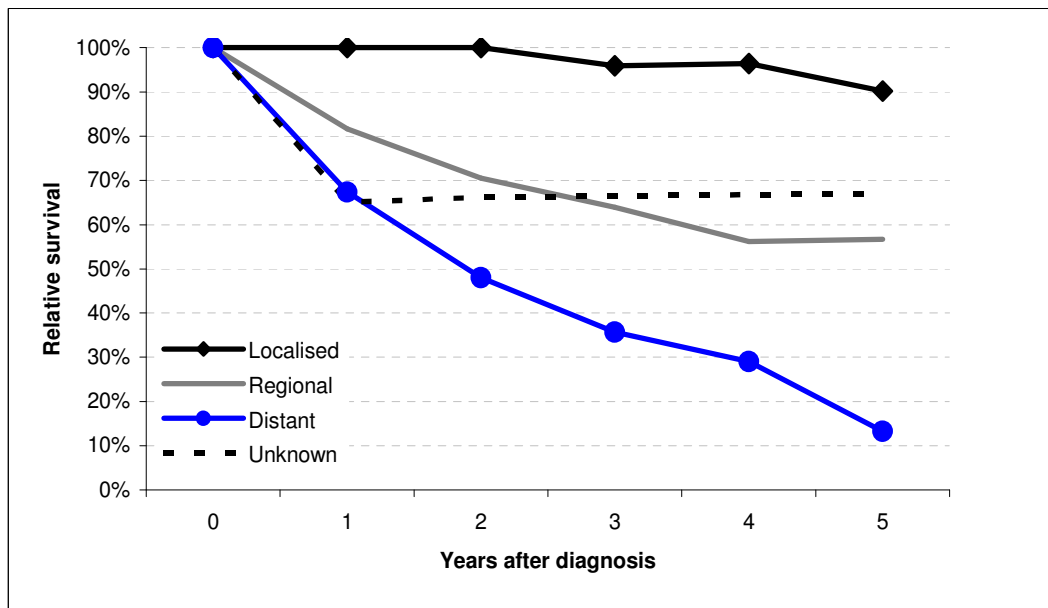
**Table 19: Ovarian cancer, survival by years after diagnosis, females, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis	Survival (%)	95% confidence interval		
1	76	(67-84)		
2	65	(55-74)		
3	57	(46-67)		
4	52	(41-63)		
5	44	(33-55)		
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	98	46	44	(33-55)
<b>Age at diagnosis</b>				
15-44	9	3	59	(22-84)
45-59	36	13	58	(39-72)
60-74	29	13	37	(17-58)
75+	23	17	18	(6-38)
<b>Stage</b>				
Localised	18	2	90	(63-99)
Regional	24	8	57	(30-77)
Distant	48	33	13	(5-26)
Unknown	8	3	67	(27-90)
<b>Selected period</b>				
1995-1999			39	(27-51)
2000-2004			51	(40-62)

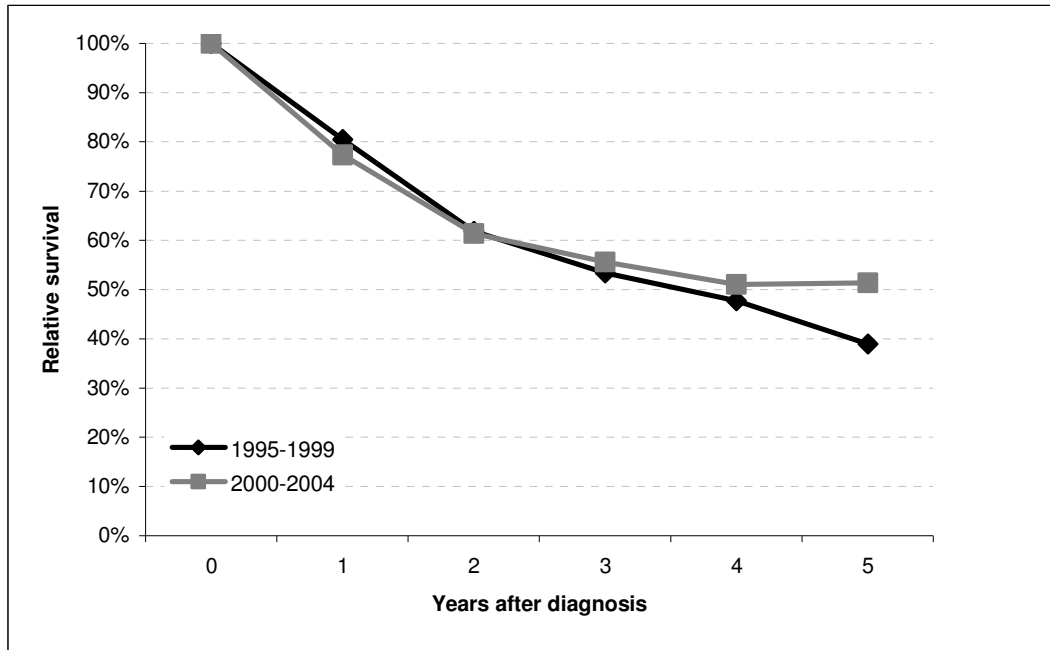
**Figure 66: Ovarian cancer, survival by age group, ACT, 2000-2004.**



**Figure 67: Ovarian cancer, survival by stage, ACT, 2000-2004.**



**Figure 68: Ovarian cancer, survival by period, ACT, 1995-2004.**



## Pancreas

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**The 5-year survival** for persons with pancreatic cancer was 11%.

**Sex:** Survival was slightly higher for females (13%) than for males (9%).

**Age at diagnosis:** Survival decreased from 25% for persons aged 15-44 years to 11% for persons over 75 years.

**Stage:** Almost half of the cases (46%) had distant metastasis at diagnosis. Persons diagnosed with more advanced cancers experienced lower survival (2%) than those with localised spread (29%).

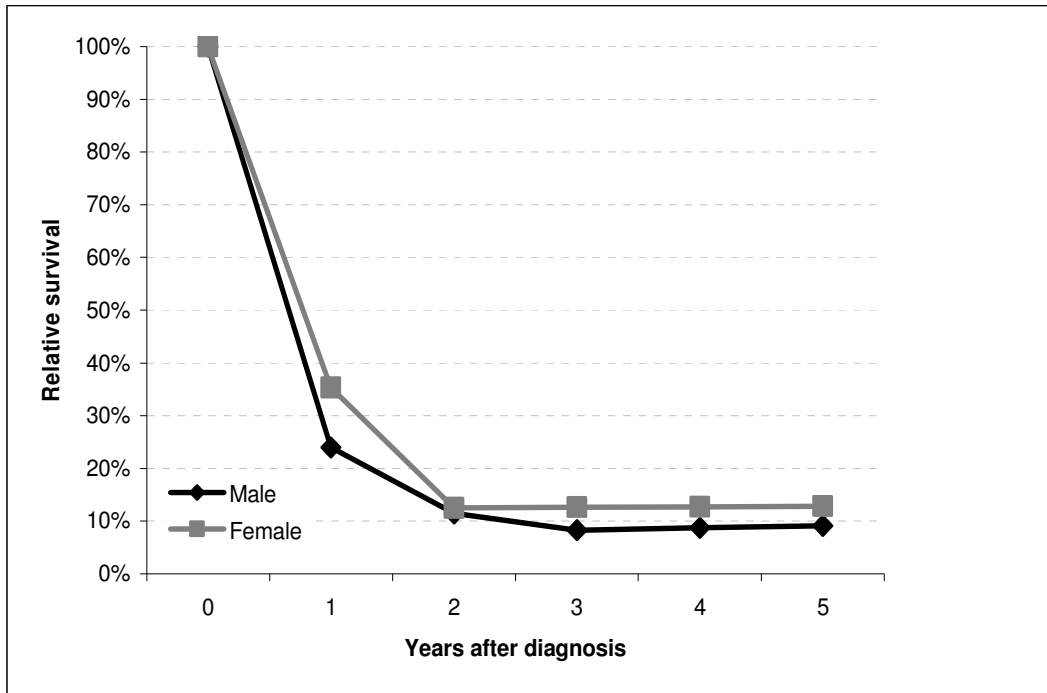
**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

**Table 20: Pancreatic cancer, survival by year after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

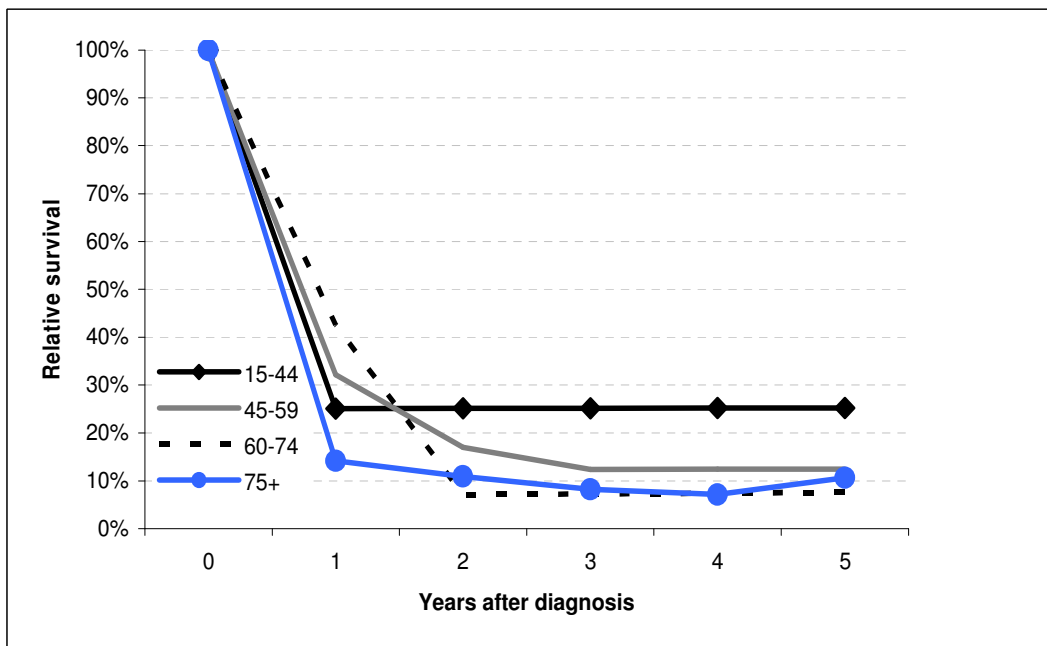
Years after diagnosis			Survival (%)	95% confidence interval
1			29	(20-38)
2			12	(7-19)
3			10	(5-16)
4			10	(6-17)
5			11	(6-17)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	98	79	11	(6-17)
<b>Sex</b>				
Male	52	46	9	(4-18)
Female	46	33	13	(5-24)
<b>Age at diagnosis</b>				
15-44	4	3	25	(5-53)
45-59	22	18	12	(4-26)
60-74	41	30	8	(3-16)
75+	31	28	11	(2-29)
<b>Stage</b>				
Localised	13	10	29	(8-57)
Regional	16	11	19	(2-50)
Distant	45	40	2	(0.5-7)
Unknown	24	18	14	(5-29)
<b>Selected period</b>				
1995-1999			14	(7-22)
2000-2004			10	(4-18)



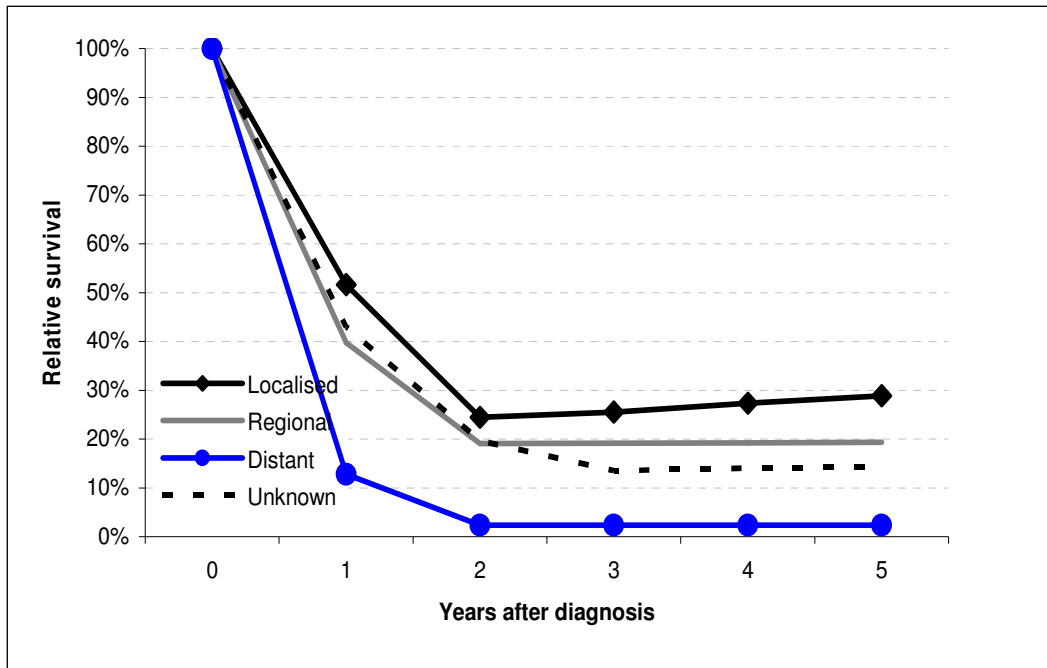
**Figure 69: Pancreatic cancer, survival by sex, ACT, 2000-2004.**



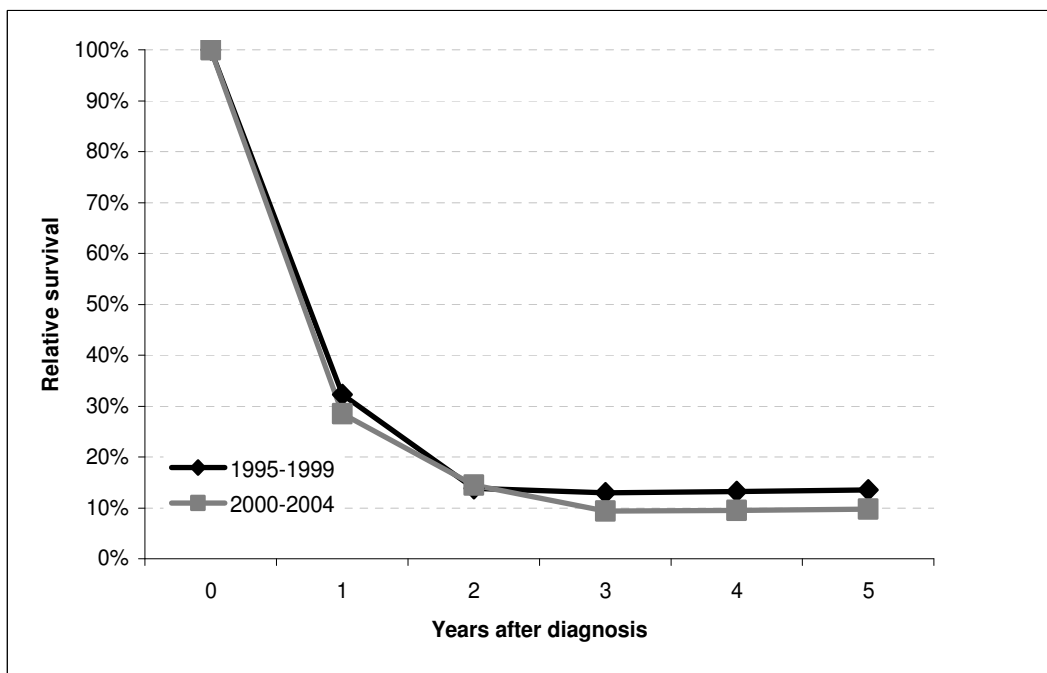
**Figure 70: Pancreatic cancer, survival by age group, ACT, 2000-2004.**



**Figure 71: Pancreatic cancer, survival by stage, ACT, 2000-2004.**



**Figure 72: Pancreatic cancer, survival by period, ACT, 1995-2004.**



## Prostate

The 5-year survival for men with prostate cancer was 91%.

**Age at diagnosis:** Males diagnosed at an older age had poorer survival. Survival fell from 100% for men aged 15-44 years to 76% for men over 75 years.

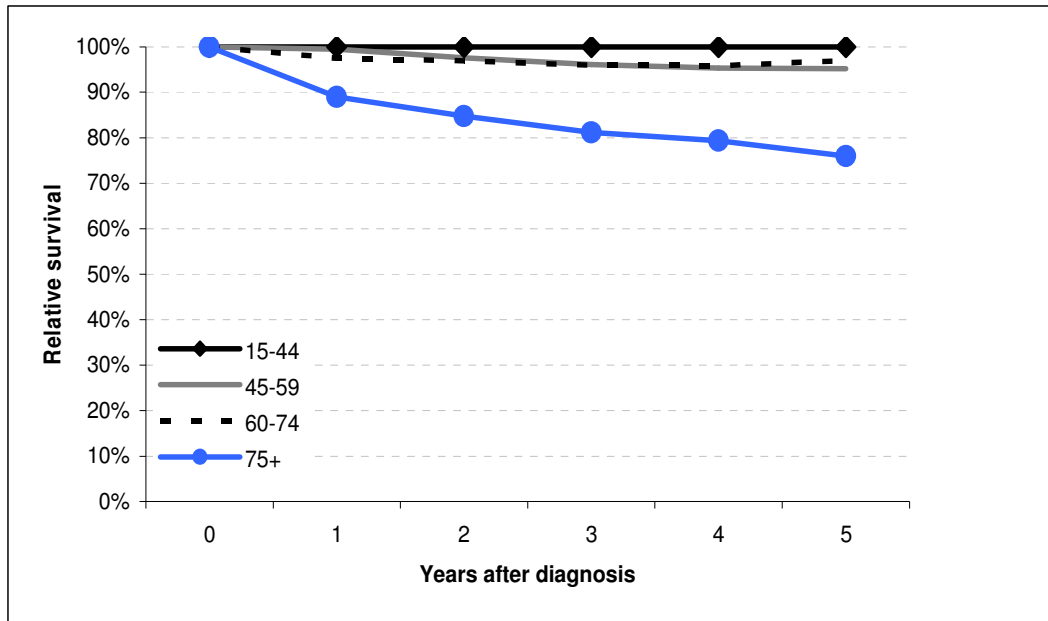
**Stage:** More than half of the cases (55%) were of localised stage at diagnosis. Men diagnosed with more advanced cancers (distant metastasis) experienced a lower survival (17%) than those with localised spread (95%).

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

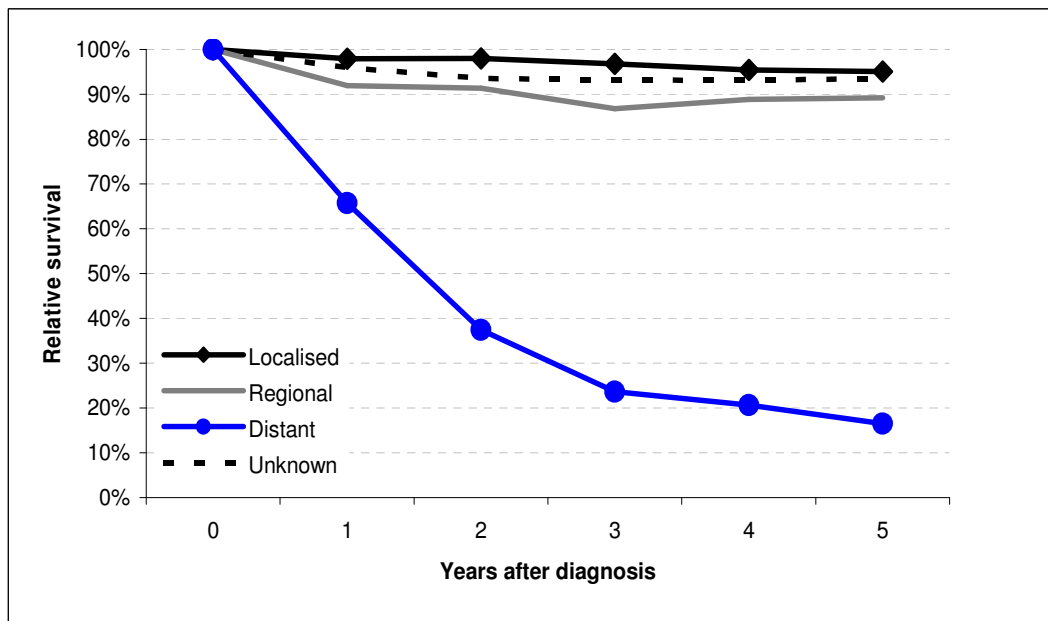
**Table 21: Prostate cancer, survival by year after diagnosis, males, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			96	(94-97)
2			94	(92-96)
3			92	(89-94)
4			91	(88-94)
5			91	(88-94)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	960	180	91	(88-94)
<b>Age at diagnosis</b>				
15-44	4	0	100	-
45-59	231	12	95	(90-98)
60-74	463	52	97	(93-100)
75+	262	116	76	(67-84)
<b>Stage</b>				
Localised	528	70	95	(91-99)
Regional	60	10	89	(75-98)
Distant	36	29	17	(7-31)
Unknown	336	71	94	(88-98)
<b>Selected period</b>				
1995-1999			92	(88-95)
2000-2004			92	(88-95)

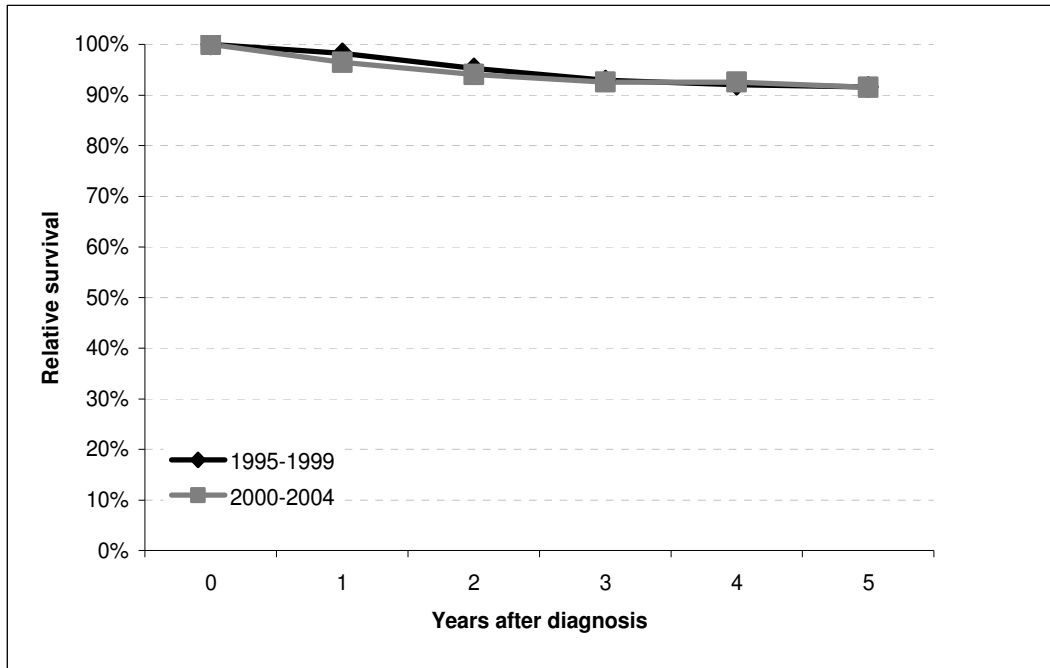
**Figure 73: Prostate cancer, survival by age group, males, ACT, 2000-2004.**



**Figure 74: Prostate cancer, survival by stage, males, ACT, 2000-2004.**



**Figure 75: Prostate cancer, survival by period, males, ACT, 1995-2004.**



## Stomach

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**The 5-year survival** for persons with stomach cancer was 31%.

**Sex:** Survival was higher for males (34%) than for females (27%).

**Age at diagnosis:** The age effect on survival was not apparent.

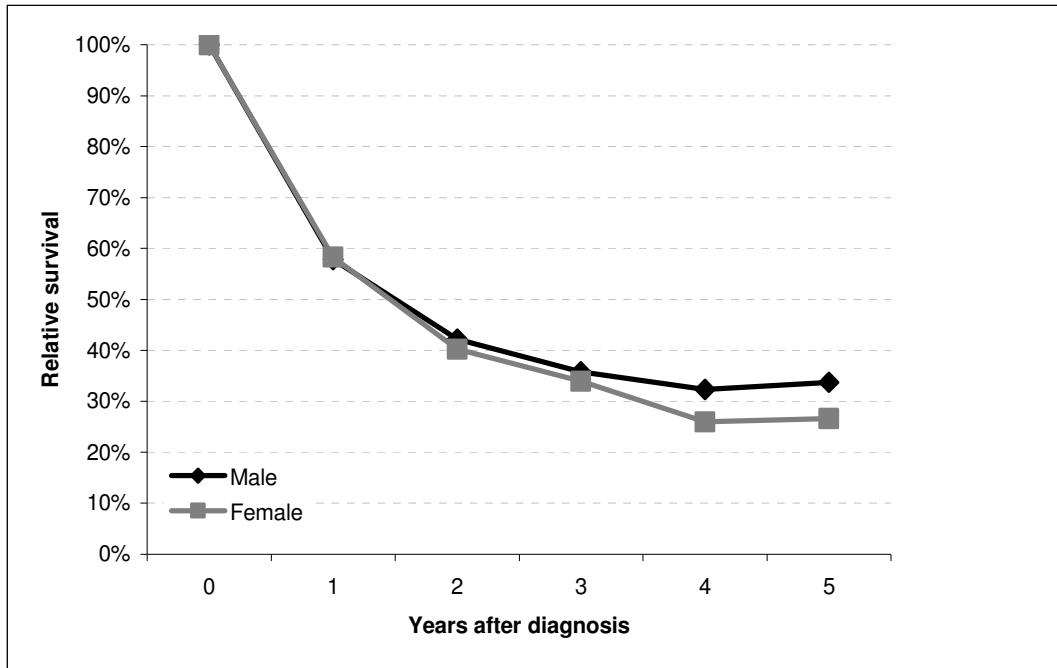
**Stage:** Persons diagnosed with more advanced cancers (distant metastasis) experienced lower survival (0.002%) than those with localised spread (64%). About 25% of all cases had distant metastasis at diagnosis.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

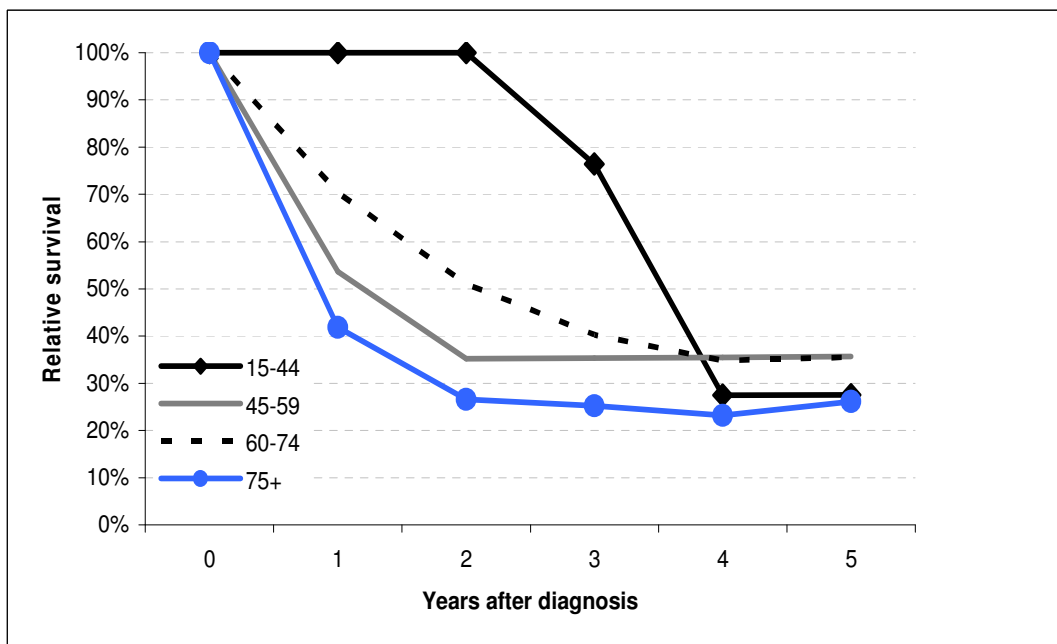
**Table 22: Stomach cancer, survival by year after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			58	(49-66)
2			41	(32-50)
3			35	(26-44)
4			30	(23-40)
5			31	(23-40)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	126	84	31	(23-40)
<b>Sex</b>				
Male	70	47	34	(22-46)
Female	56	37	27	(15-40)
<b>Age at diagnosis</b>				
15-44	6	3	28	(3-63)
45-59	24	15	36	(23-49)
60-74	51	33	36	(23-49)
75+	45	33	26	(11-46)
<b>Stage</b>				
Localised	32	14	64	(43-81)
Regional	46	29	31	(16-47)
Distant	32	32	0	-
Unknown	16	9	44	(16-73)
<b>Selected period</b>				
1995-1999			26	(18-36)
2000-2004			29	(20-39)

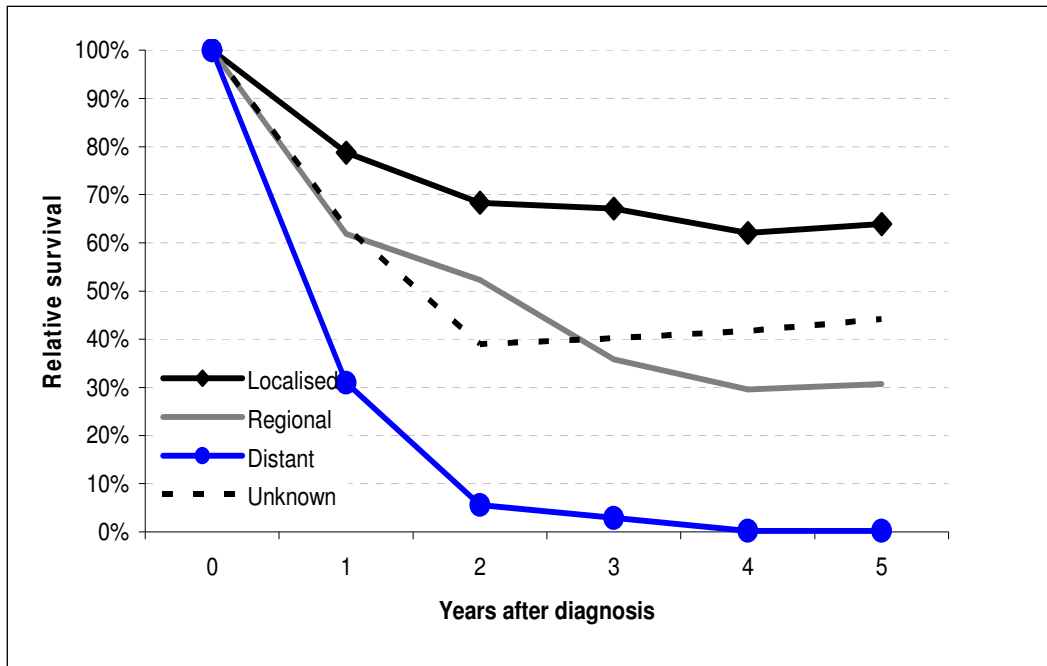
**Figure 76: Stomach cancer, survival by sex, ACT, 2000-2004.**



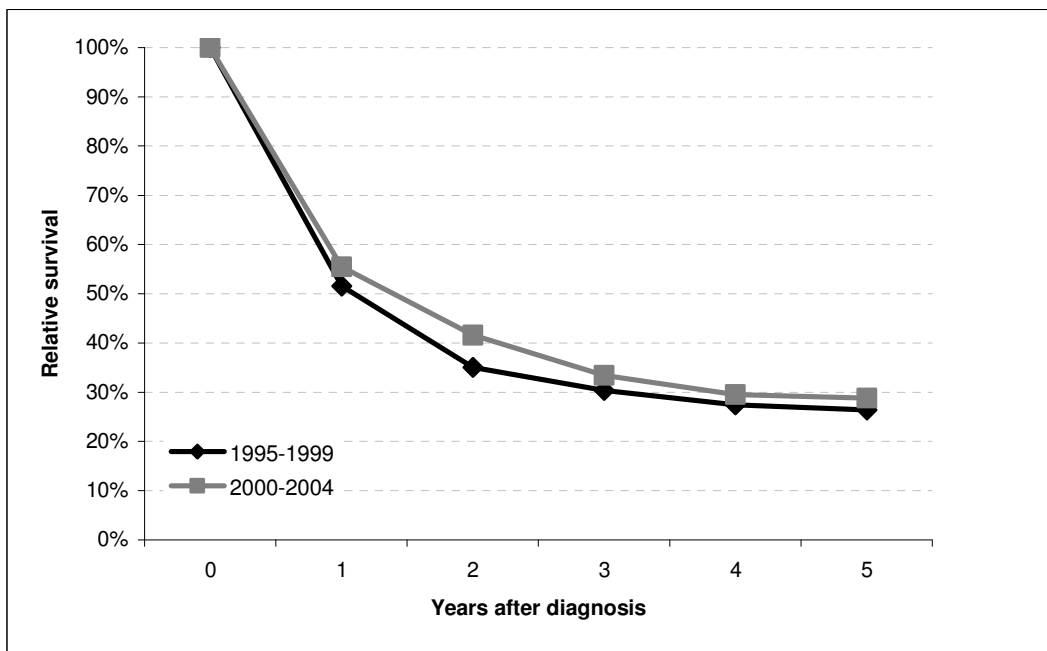
**Figure 77: Stomach cancer, survival by age group, ACT, 2000-2004.**



**Figure 78: Stomach cancer, survival by stage, ACT, 2000-2004.**



**Figure 79: Stomach cancer, survival by period, ACT, 1995-2004.**





## Testis

The **5-year survival** for men with testicular cancer was 99%.

**Age at diagnosis:** Survival by age at diagnosis was not examined as over 80% of cases were aged 15-44 years.

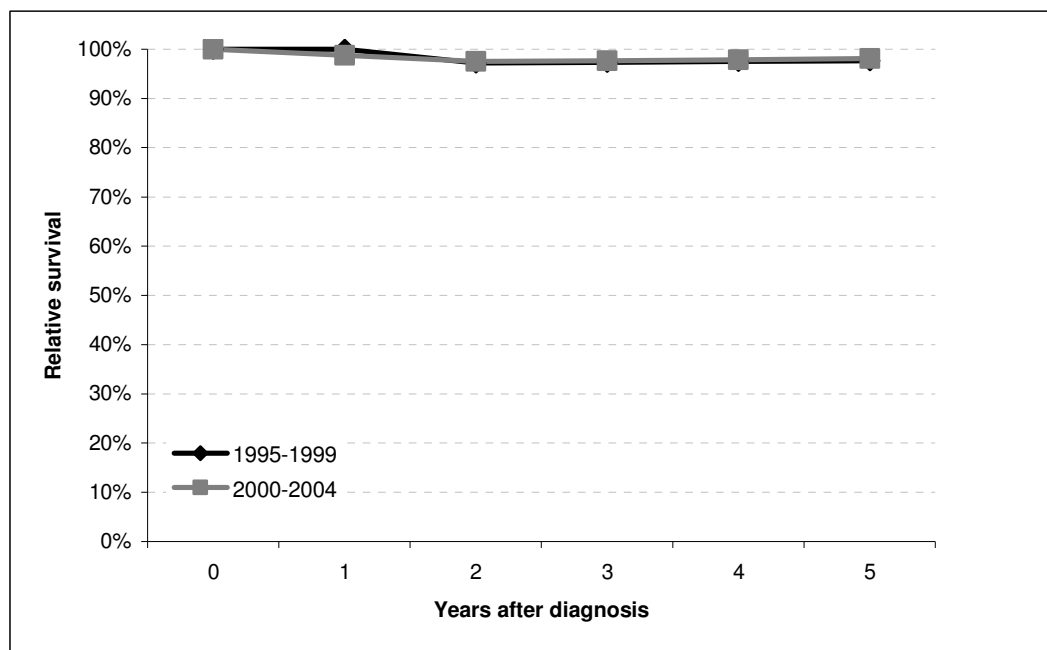
**Stage:** Survival by stage was not available as almost 70% of the cases were of regional spread.

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

**Table 23: Testicular cancer, survival by year after diagnosis, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis	Survival (%)	95% confidence interval	
1	99	(91-100)	
2	99	(91-100)	
3	99	(91-100)	
4	99	(92-100)	
5	99	(92-100)	
By subgroup	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	1	99	(92-100)
<b>Selected period</b>			
1995-1999		98	(89-100)
2000-2004		98	(90-100)

**Figure 80: Testicular cancer, survival by period, ACT, 1995-2004.**



## Thyroid

The **5-year survival** for persons with thyroid cancer was 97%.

**Sex:** Survival was slightly higher for males (99%) than for females (97%). Females accounted for 75% of cases.

**Age at diagnosis:** Persons diagnosed at an older age had poorer survival. Survival fell from 100% for persons aged 15-44 years to 76% for persons aged 60-74 years.

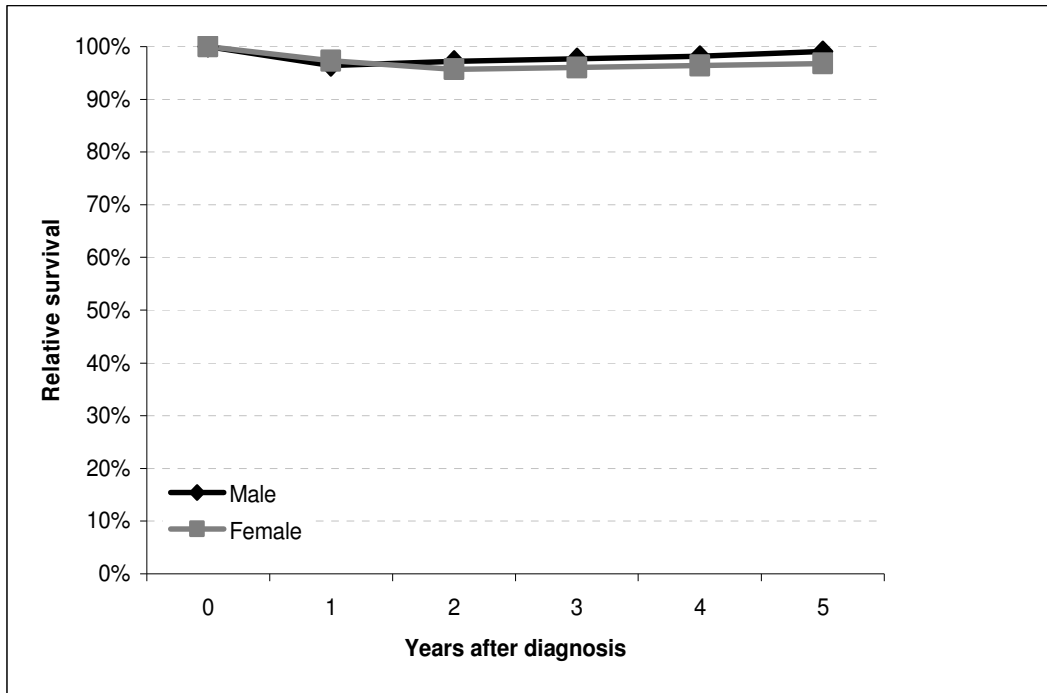
**Stage:** The majority of cases (84%) were at localised or regional stages. Persons diagnosed with more advanced cancers (distant metastasis) experienced a lower survival (70%) than those with localised spread (98%).

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

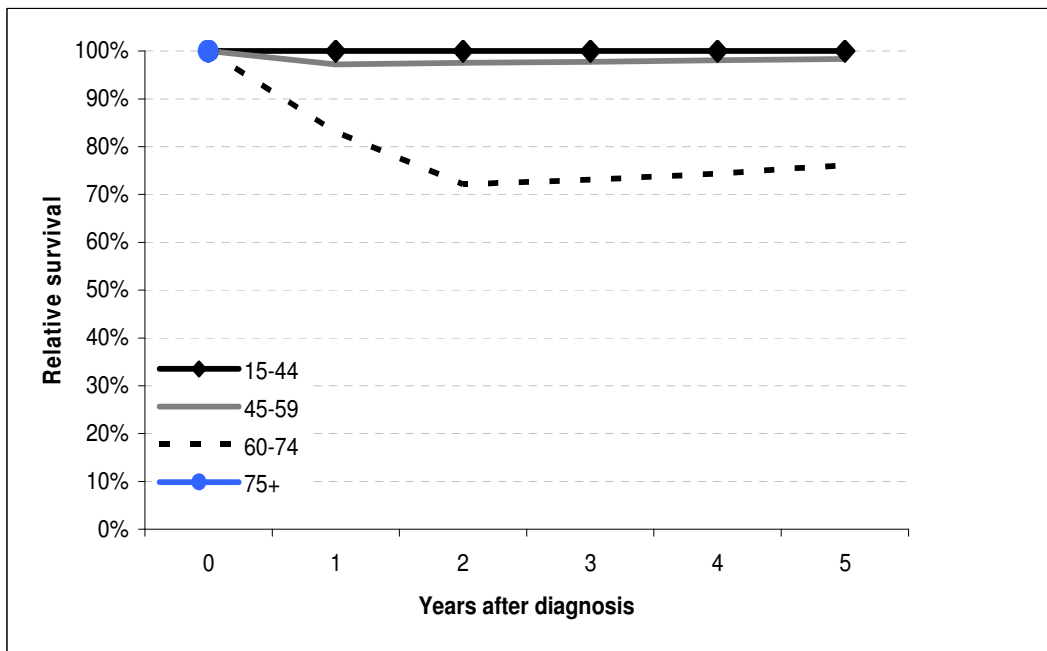
**Table 24: Thyroid cancer, survival by year after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis		Survival (%)	95% confidence interval	
1		97	(91-99)	
2		96	(90-99)	
3		96	(90-99)	
4		97	(90-100)	
5		97	(91-100)	
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	100	4	97	(91-100)
<b>Sex</b>				
Male	25	1	99	(77-100)
Female	75	3	97	(88-100)
<b>Age at diagnosis</b>				
15-44	48	0	100	-
45-59	37	1	98	(84-100)
60-74	13	3	76	(38-96)
75+	2	0	NA	NA
<b>Stage</b>				
Localised	53	1	98	(88-100)
Regional	31	1	99	(80-100)
Distant	7	2	70	(27-91)
Unknown	9	0	100	-
<b>Selected period</b>				
1995-1999			97	(87-100)
2000-2004			96	(89-99)

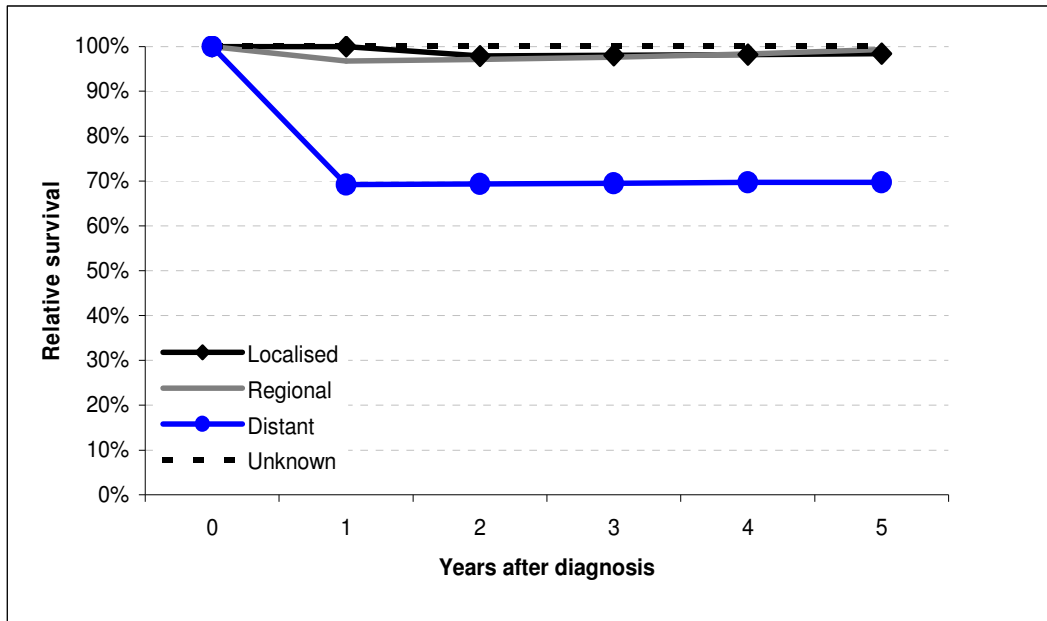
**Figure 81: Thyroid cancer, survival by sex, ACT, 2000-2004.**



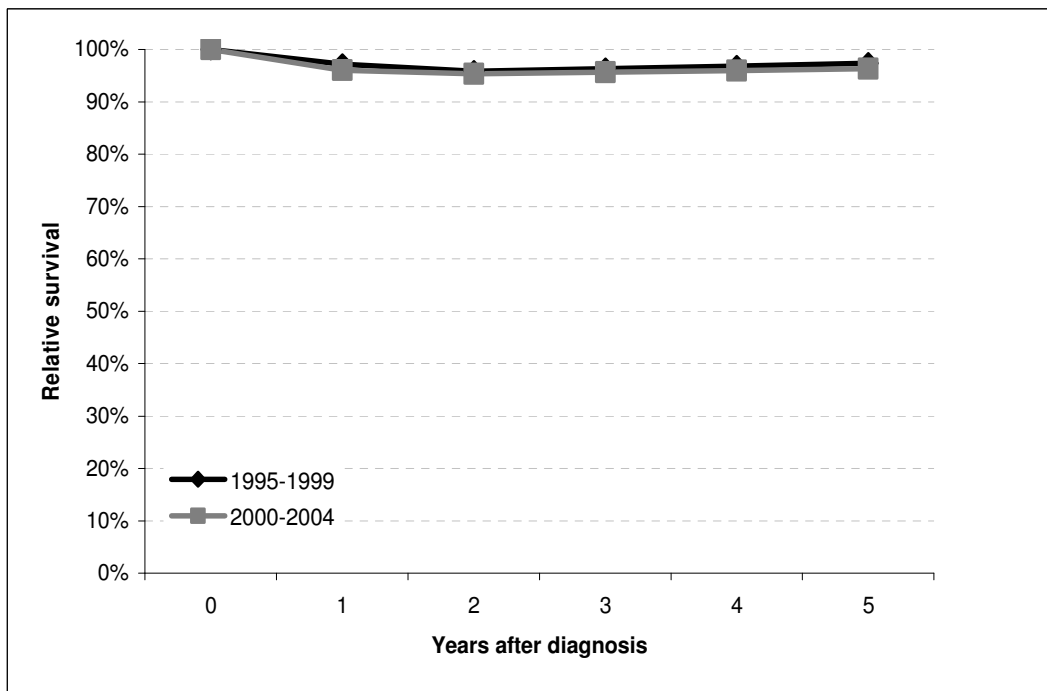
**Figure 82: Thyroid cancer, survival by age group, ACT, 2000-2004.**



**Figure 83: Thyroid cancer, survival by stage, ACT, 2000-2004.**



**Figure 84: Thyroid cancer, survival by period, ACT, 1995-2004.**



## Uterus

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**The 5-year survival** for women with uterine cancer was 73%.

**Age at diagnosis:** Older persons at diagnosis had poorer survival, falling from 76% for women aged 15-44 years to 61% for women over 75 years.

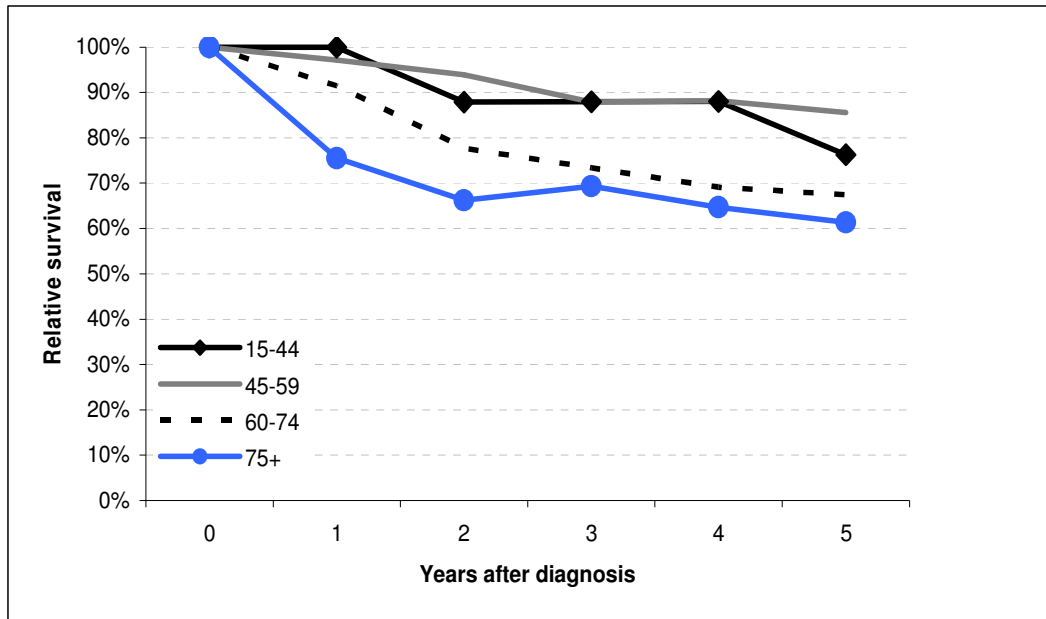
**Stage:** More than half of the cases (56%) were of localised stage. Persons diagnosed with more advanced cancers (distant metastasis) had lower survival (11%) than those with localised spread (95%).

**Time trends:** There was no significant change in survival over the two five year periods from 1995 to 2004.

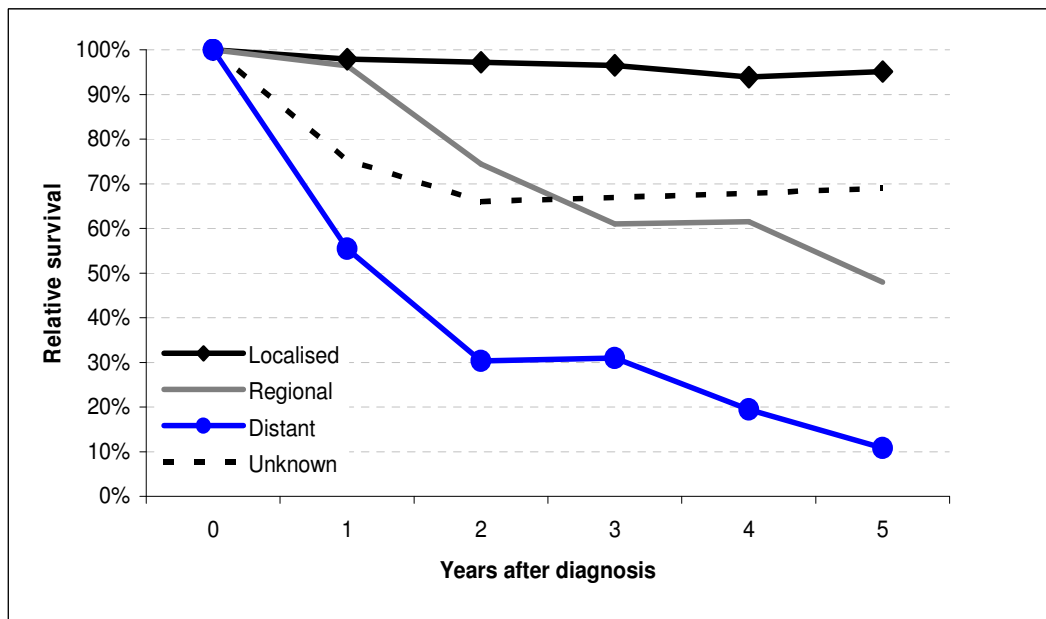
**Table 25: Uterine cancer, survival by year after diagnosis, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			91	(84-95)
2			81	(72-88)
3			78	(68-85)
4			76	(66-84)
5			73	(63-81)
By subgroup	Number of cases	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	119	32	73	(63-81)
<b>Age at diagnosis</b>				
15-44	10	2	76	(36-93)
45-59	36	5	86	(69-94)
60-74	49	15	67	(52-80)
75+	24	10	61	(33-87)
<b>Stage</b>				
Localised	67	6	95	(84-100)
Regional	28	12	48	(27-67)
Distant	8	7	11	(7-39)
Unknown	16	5	69	(34-92)
<b>Selected period</b>				
1995-1999			79	(68-87)
2000-2004			74	(62-83)

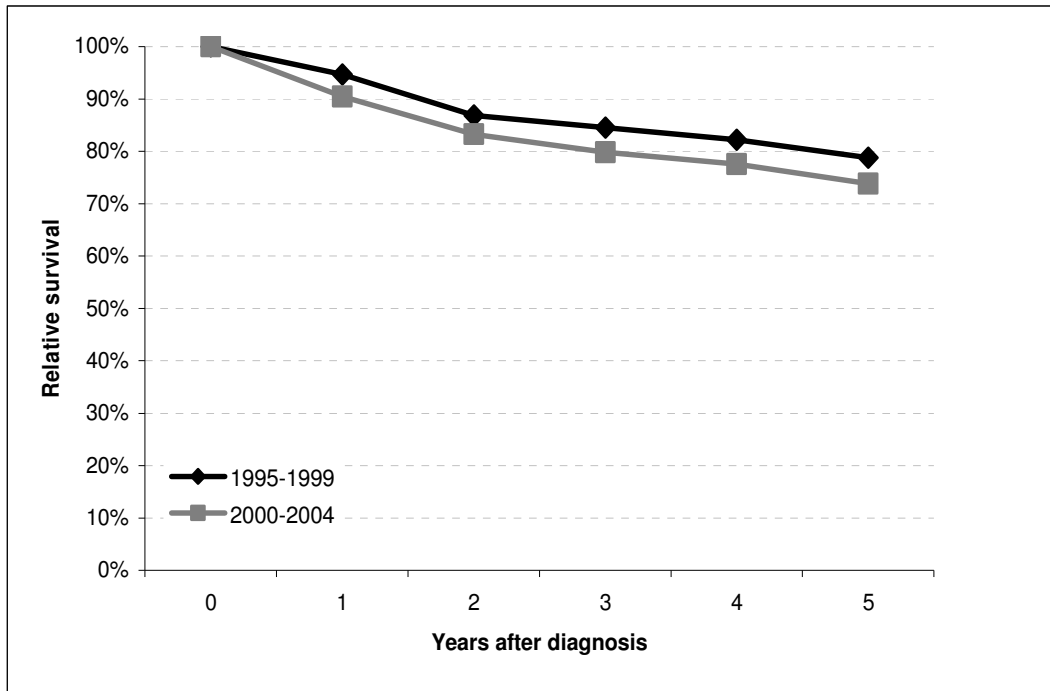
**Figure 85: Uterine cancer, survival by age group, ACT, 2000-2004.**



**Figure 86: Uterine cancer, survival by stage, ACT, 2000-2004.**



**Figure 87: Uterine cancer, survival by period, ACT, 1995-2004.**



## Unknown primary

The **5-year survival** for persons with cancers of unknown primary site was 14%.

**Sex:** Survival was slightly higher for males (17%) than for females (12%).

**Age at diagnosis:** Older age at diagnosis showed lower survival, falling from 21% for persons aged 15-44 years to 5% for persons over 75 years.

**Stage:** Persons diagnosed with more advanced cancers (distant metastasis) experienced lower survival (6%) than those with regional spread (37%). Survival estimation is not available for cases with localised spread due to small numbers (N=1).

**Time trends:** Survival improved over the two five year periods from 10% (1995-1999) to 18% (2000-2004), however this change was not statistically significant.

Note: Cancers of unknown primary sites are routinely recorded in cancer registries and in cancer reports. They are metastatic cancers where the primary site of origin had not been discovered. Patients with these cancers generally have advanced symptoms and poor prognosis.

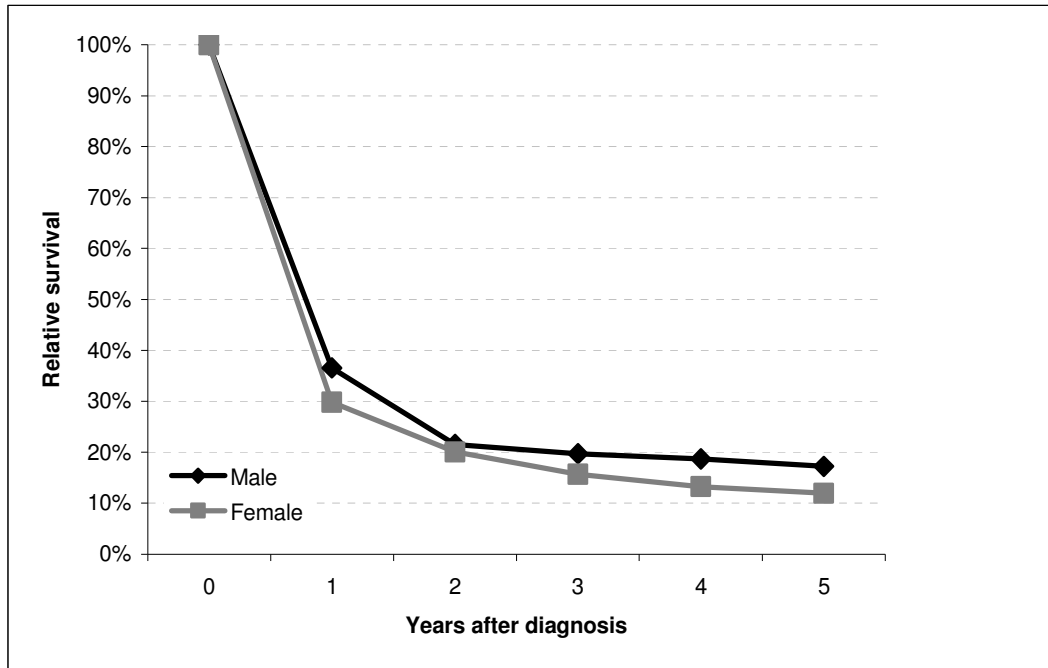
**Table 26: Cancer of unknown primary site, survival by year after diagnosis, sex, age group and stage, ACT, 2000-2004, and for selected years from 1995.**

Years after diagnosis			Survival (%)	95% confidence interval
1			33	(27-39)
2			21	(16-26)
3			18	(13-23)
4			16	(11-21)
5			14	(10-20)
By subgroup	Number of caes	Number of deaths	5-year survival (%)	95% confidence interval
<b>All cases</b>	223	174	14	(10-20)
<b>Sex</b>				
Male	116	89	17	(10-26)
Female	107	85	12	(6-19)
<b>Age at diagnosis</b>				
15-44	13	9	21	(3-50)
45-59	40	25	27	(14-43)
60-74	81	61	16	(8-27)
75+	88	79	5	(2-12)
<b>Stage</b>				
Localised	1	1	NA	NA
Regional	32	18	37	(19-56)
Distant	164	140	6	(3-12)
Unknown	26	15	38	(15-64)
<b>Selected period</b>				
1995-1999			10	(6-15)
2000-2004			18	(13-25)

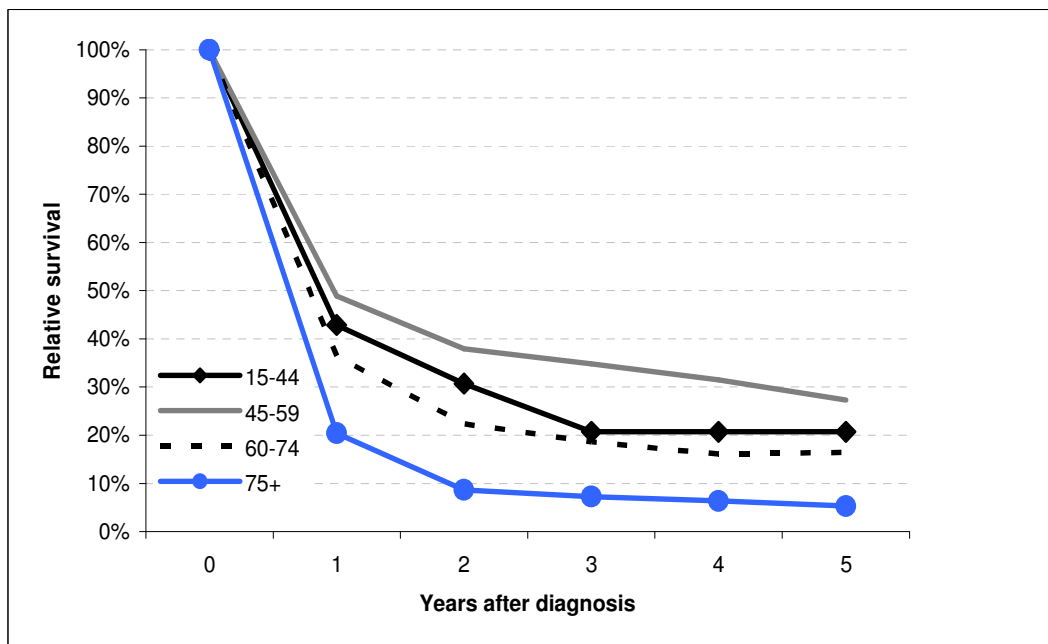
NA=Not available



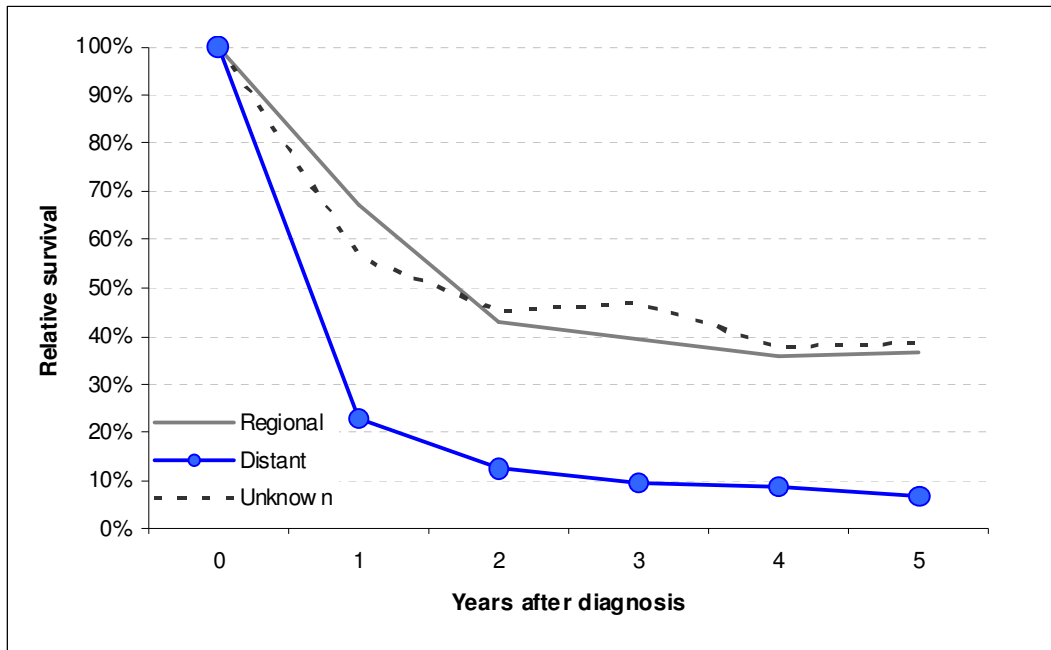
**Figure 88: Cancer of unknown primary site, survival by sex, ACT, 2000-2004.**



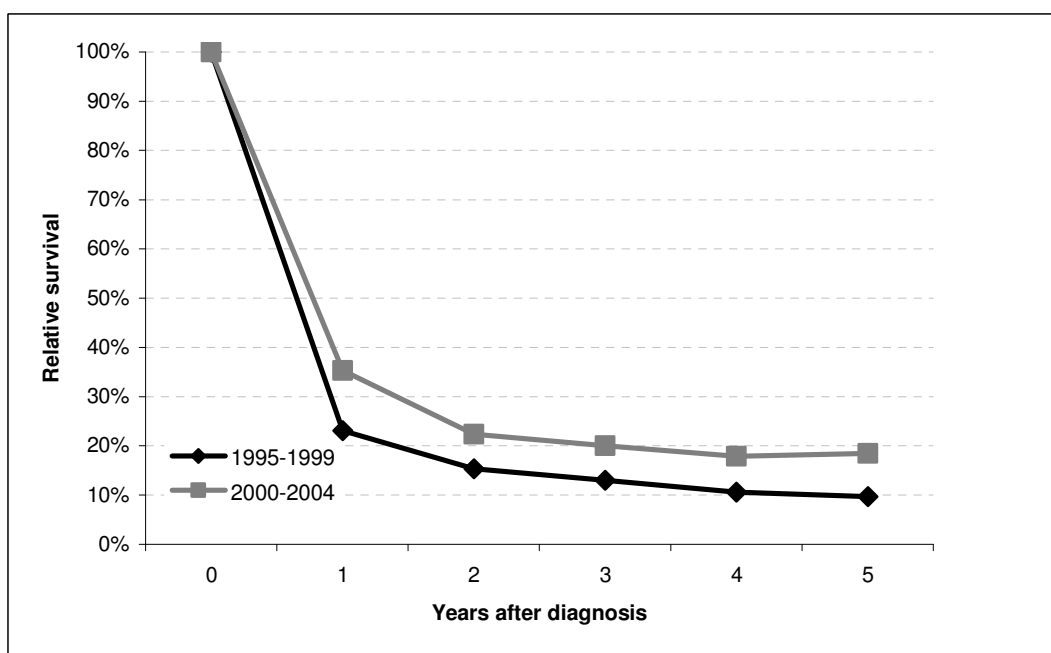
**Figure 89: Cancer of unknown primary site, survival by age group, ACT, 2000-2004.**



**Figure 90: Cancer of unknown primary site, survival by stage, ACT, 2000-2004.**



**Figure 91: Cancer of unknown primary site, survival by period, ACT, 1995-2004.-2004.**



## APPENDICES

### Appendix A: ICD Codes of cancer sites

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In this report, cancers were tabulated according to equivalent ICD-10 codes.[1]

Prior to 1999 primary site of cancer was coded to the International Classification of Diseases, 9<sup>th</sup> revision.[2] Morphology was coded using SNOMED II morphology codes which are equivalent to ICD-O-I. Cases registered more recently were coded according to the ICD-O-3.[3]

In situ cancers for breast and melanoma, and secondary primary cancers with the same three-digit topography code and related morphologies for all sites, are not tabulated in this report. However, data do include cancers diagnosed at post mortem (0.05% of new cases in 1998-2004) and those notified only by death certificate (0.7%). Multiple primary cancers in the same person are counted according to the rules set out by the International Association of Cancer Registries.[4]

ICD-10 description	ICD-10 codes
<b>Lip, oral cavity and pharynx (C00-C14, C30-C32)</b>	
Lip	C00
Tongue	C01-C02
Mouth	C03-C06
Salivary glands	C07-C08
Oropharynx	C09-C10
Nasopharynx	C11
Hypopharynx	C12-C13
Other oral cavity and pharynx	C14
Head and neck	C01-C14, C30-C32
<b>Digestive organs (C15-C26)</b>	
Oesophagus	C15
Stomach	C16
Small intestine	C17
Colon	C18
Rectum, rectosigmoid and anus	C19-C21
Large bowel	C18-C21
Liver	C22
Gallbladder	C23-C24
Pancreas	C25
<b>Respiratory system and intrathoracic organs (C30-C39)</b>	
Nose, sinuses, etc.	C30-C31
Larynx	C32
Bronchus, lung	C33-C34
Other thoracic organs	C37-C38
<b>Bones, joints and articular cartilage (C40-C41)</b>	
Bone	C40-C41

- [1] World Health Organization. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Deaths (Tenth Revision). Geneva: WHO 1990.
- [2] World Health Organization. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Edition). Geneva: WHO 1977.
- [3] Fritz A, Percy C, Jack A, Shanmugaratnam K, Sobin L, Parkin DM, et al. ICD-O International Classification of Diseases for Oncology (Third Edition). Geneva: WHO 2000.
- [4] Parkin D, Chen VW, Ferlay J, Galceran J, Storm HH, Whelan SL. Comparability and quality control in cancer registration. Lyon: International Agency for Research on Cancer; 1994.

ICD-10 description	ICD-10 codes
<b>Skin (C43-C44)</b>	
Melanoma of skin	C43
Skin cancer (Non-melanoma)	C44
<b>Mesothelioma and connective tissue (C45-C49)</b>	
Mesothelioma	C45
Kaposi's sarcoma	C46
Connective tissue (includes peripheral nerves etc.)	C47, C49
<b>Breast (C50) and female genital organs (C51-C58)</b>	
Breast	C50
Cervix	C53
Body of uterus	C54
Uterus unspecified	C55
Ovary	C56, C57.0-7
Placenta	C58
Other female genital organs	C51, C52, C57.8-9
<b>Male genital organs (C60-C63)</b>	
Prostate	C61
Testis	C62
Other male genital organs	C60, C63
<b>Urinary tract (C64-C68)</b>	
Kidney	C64-C66, C68
Bladder	C67
All urothelial	C65-C68
<b>Eye, brain and other parts of the central nervous system (C69-C72)</b>	
Eye	C69
Brain	C71
Central nervous system	C70, C72
<b>Thyroid and other endocrine glands (C73-C75)</b>	
Thyroid	C73
Other endocrine glands	C74, C75
<b>Malignant neoplasms of lymphoid, haematopoietic and related tissue (C81-C96)</b>	
Hodgkin's disease	C81
Non-Hodgkin's lymphoma	C82-C85
All lymphomas	C81-C85
Multiple myeloma	C88-C90
Acute lymphoblastic leukaemia	C91.0
Other lymphoid leukaemia	C91.1- C91.9
Acute myeloid leukaemia	C92.0
Other myeloid leukaemia	C92.1-C92.9
Other and unspecified leukaemia	C93-C95
All leukaemia	C91-C95
<b>Unknown primary site (C80, C26, C39, C48, C76)</b>	
Unspecified site	C80
Other and ill defined sites	C26, C39, C48, C76
<b>All cancers (excluding non-melanoma skin cancers C44)</b>	<b>C00-C96</b>

## **Appendix B: Statistical methods**

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### **Cancer incidence**

Cancer incidence is defined as the number of new cases of cancer in a population during a specific period. Incidence reflects the number of primary tumours rather than the number of individuals with cancer. Data on tumours were analysed separately, so that it is unlikely that a person will appear twice for the same tumour. All usual ACT residents who presented with one or more primary tumours between 1995 and 2004 were included in this report.

### **Cancer mortality**

Cancer mortality refers to deaths from cancer in a given population occurring in a specified period. These cancers may have been diagnosed during or before the period in question. Persons notified to the ACT Cancer Registry by death certificate only (DCO) were included in the calculation of mortality, but excluded from survival analysis.

### **Date of diagnosis**

Date of diagnosis was defined as the date of definitive diagnosis of invasive disease from a pathology report, where available. For cancers that were not histologically confirmed, the date of clinical diagnosis or admission to hospital was used.

### **Age at diagnosis**

The following age groups (in years) were used for all the cancer sites: 15-44, 45-59, 60-74 and 75-89. These age cut-offs were chosen based on both biological and statistical rationales. Statistically, cancer cases were arranged into age groups in order to have sufficient numbers in each group to yield meaningful results. Biologically, patients aged in their 40's with cancer have different health outcomes to those aged in their 60's or 70's. Cancer cases aged less than 15 years were excluded from this report because the survival of cases with childhood cancers is different from adult cases. Most of these childhood cancer cases were leukaemia and lymphomas.

### **Survival time**

Survival time was calculated from the date of diagnosis to the date of death or follow-up. Final follow-up dates were 31 December 2004 for "Period approach"; 31 December 2005 for "Hybrid approach; and 31 December 2006 for "Cohort approach". Persons whose date of death was the same as their date of diagnosis were excluded from analysis. Most of these cases were DCO notifications.

### **Relative survival**

Relative survival ratio is the ratio of the observed survival rate to the expected survival rate expressed as a percentage. Observed survival rate refers to cancer patients who would have survived to a certain time (usually five years for cancer), if the cancer they had was the only cause of death in the patient population. Expected survival rate refers to the expected rate of a group of persons in the general population similar to the patient group with respect to race, sex, age and calendar period of observation. In this report, we obtained the expected survival rates from life tables of the general population of the ACT.

### **Period approach**

In this report, the "period approach" was used to estimate the relative survival ratio. In 1996, Hermann Brenner, an expert in cancer statistics from the German Centre for Ageing in Heidelberg, developed this method of calculating relative survival ratio. This method provides a realistic look at what a patient's chances of survival from a particular cancer are today.

In contrast to traditional "cohort method" of survival ratios, the period approach derives long-term survival estimates exclusively from the survival experience of patients within the most recent calendar period. The cohort method looks at how many persons diagnosed in a certain year died later from their disease within a broad time frame. This approach includes many who died when treatments were not as reliable as they are now, and when screening did not identify cancers as effectively as now.

The following table matrix outlines the “period approach”. Survival experiences of cancer cases diagnosed between 1 Jan 1995 and 31 Dec 2004 are used to estimate the 5-year survival of the period window (1 Jan 2000 - 31 Dec 2004). The contributions for each annual interval are listed as:

- First year with contributions from patients diagnosed 1999-2004;
- Second year with contributions from patients diagnosed 1998-2003;
- Third year with contributions from patients diagnosed 1997-2002;
- Fourth year with contributions from patients diagnosed 1996-2001;
- Fifth year with contributions from patients diagnosed 1995-2000.

	<u>Year of follow-up</u>				
<u>Year of diagnosis</u>	2000	2001	2002	2003	2004
1995	5/6				
1996	4/5	5/6			
1997	3/4	4/5	5/6		
1998	2/3	3/4	4/5	5/6	
1999	1/2	2/3	3/4	4/5	5/6
2000	1	1/2	2/3	3/4	4/5
2001		1	1/2	2/3	3/4
2002			1	1/2	2/3
2003				1	1/2
2004					1

The period 5-year survival is calculated by multiplying the interval survival probabilities.

All statistical analyses were performed using Intercooled Stata 9.2. Period, hybrid and cohort approaches of relative survival estimates were calculated using Stata codes written by Paul Dickman, Enzo Coviello, and Michael Hills.[1]

**Hybrid approach** (Modified period method)

Many cancer registries complete registration of new cancer cases for a given calendar year, well after the events. Registration often lags by one to two years behind mortality follow up (releases of the National Death Index by Australian Bureau of Statistics in Australia). For example, at a given point of time, the cancer registry database may be complete with respect to recording incident cases up to the end of 2004, while mortality follow-up of registered cases may already be complete up to the end of 2005.

Application of the “period approach” could be difficult if the follow-up period extends beyond the period for which incident cases of cancers are compiled. For example the ACT data set contains patients diagnosed up until 31 December 2004 with follow up until December 2005. To conduct a “pure period approach”, we excluded the follow-up of all individuals on 31 December 2004. The estimates from this approach may be biased due to the fact that some cases diagnosed in 2004 and who die within the first 12 months will not be captured by this cut off period.

It may be possible to estimate the relative survival using the latest follow up (mortality) data, i.e. 2001-2005. The following table matrix illustrates this scenario. Note that there is an empty cell (shaded) for the first year following diagnosis of cancer for those diagnosed in 2005 with up-to-date year of follow up in 2005.

[1] Dickman PW, Coviello E, Hills M. Estimating and modelling relative survival. The Stata Journal (yyyy), vv, Number II, pp.1-24. Available at [www.pauldickman.com](http://www.pauldickman.com)

	<u>Year of follow-up</u>					
<u>Year of diagnosis</u>	2000	2001	2002	2003	2004	2005
1995	5/6					
1996	4/5	5/6				
1997	3/4	4/5	5/6			
1998	2/3	3/4	4/5	5/6		
1999	1/2	2/3	3/4	4/5	5/6	
2000	1	1/2	2/3	3/4	4/5	5/6
2001		1	1/2	2/3	3/4	4/5
2002			1	1/2	2/3	3/4
2003				1	1/2	2/3
2004					1	1/2

The “Hybrid approach”[2] or the “modified period method” originally developed and pioneered by Dr Xue Qin Yu in 2003[3], provides solutions to the drawback of the pure period approach. The application of pure period approach loses the precision of estimates due to the sparseness of data on survival experience early after diagnosis, which is caused by delayed availability of registration of recent incident cases. For this reason, estimates of relative survival using the “Hybrid approach” are provided. The table matrix below illustrates how the “Hybrid approach” works for the data set. This approach takes the survival experience during the first year following diagnosis from the previous year’s cohort. In this case, the period window was widened for the first year and the period of interest was 2001-2005.

	<u>Year of follow-up</u>					
<u>Year of diagnosis</u>	2000	2001	2002	2003	2004	2005
1995	5/6					
1996	4/5	5/6				
1997	3/4	4/5	5/6			
1998	2/3	3/4	4/5	5/6		
1999	1/2	2/3	3/4	4/5	5/6	
2000	1	1/2	2/3	3/4	4/5	5/6
2001		1	1/2	2/3	3/4	4/5
2002			1	1/2	2/3	3/4
2003				1	1/2	2/3
2004					1	1/2

[2] Brenner H, Rachet B. Hybrid analysis for up-to-date long-term survival rates in cancer registries with delayed recording of incident cases. Eur J Cancer 2004; 40:2494-2501.

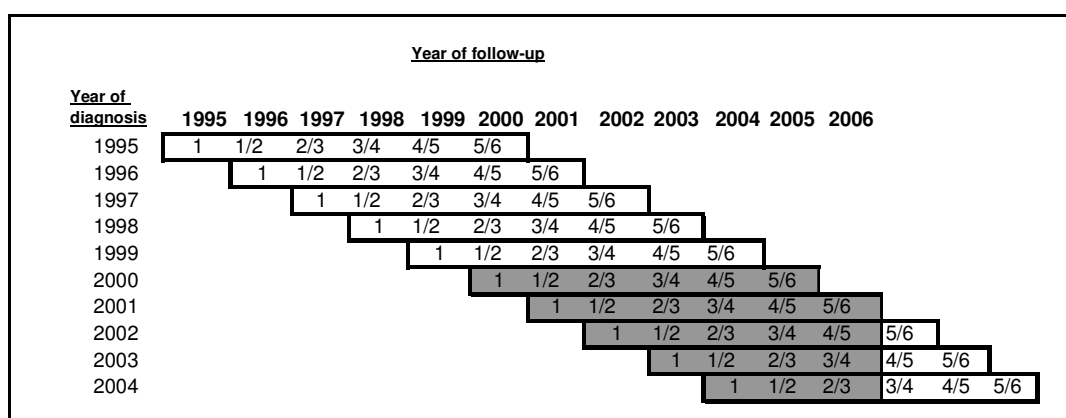
[3] Yu XQ, W'Connell DL, Gibberb RW, Smith DP, Dickman PW, Armstrong BK. Estimating regional variation in cancer survival: a tool for improving cancer care. Cancer Causes Control 2004; 15:611-618.)

### Cohort approach

The “cohort approach” is the traditional method used by most cancer registries in Australia in estimating relative survival. In this report, we also used this period to estimate two different periods with follow up end on 31 December 2006:

- Patients diagnosed during 1995-1999
- Patients diagnosed during 2000-2004

The following diagram shows the first time period (patients diagnosed during 1995-1999); and the second time period (patients diagnosed during 2000-2004) (shaded). The unshaded area inside the second time period (patients diagnosed during 2000-2004) shows the years for which the incidence data was unavailable at the time of reporting.



### Exclusion criteria

- Records flagged as death certificate only (DCO) and autopsy;
- Records for persons whose age at diagnosis was not known or missing;
- Records for persons for whom there was ambiguity surrounding their exact date of diagnosis or death; and
- Records for persons 100 years of age and older.

### Other issues

- Records of persons with a survival less than one month which are not death certificate only (DCO) are included, even if there is zero survival time.
- Where a nominal day of diagnosis has been recorded, and death occurs within the same month, an average survival time of two weeks will be given for that record.
- Where a person has multiple cancers, eg. a breast cancer and a lung cancer, the person will be included in multiple sets for survival analysis (ie. one for breast cancer and one for lung cancer).



## Appendix C: Data quality

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### **Death Certificate Only**

The most traditional indicator of complete recording of cancer notification is the percentage of Death Certificate Only (DCO) cases. Although not included in the survival analysis, they indicate a systematic loss of cases (in general those with a bad prognosis, which cause death before they can generate other information in the system). If this loss is extreme it may lead to overestimation of survival ratios. The recommended range for DCO is 1-3%. During 1995-2004, 66 DCO cases (0.006%) were registered in the ACT.

### **Deceased within 1 year for cancers with a favourable prognosis**

In the case of cancers with a favourable prognosis (over 5-year survival in more than 75% of cases), the deaths of patients within a year must be a rare, but possible, event. These cancers include female breast, thyroid, testicle, Hodgkin's lymphoma, corpus uteri and melanoma of skin. If an abnormally high number of cases in this category are being observed, it indicates difficulties in collecting the information on the date of onset of illness, or a late recording of the notification in the health information system. This could mean an underestimation of survival. The ACT Cancer Registry had 4.8% of this category of cases registered during 1995-2004.

### **Alive after more than 5 years for cancers with a poor prognosis**

In the case of cancers with a bad prognosis, patients who survive after more than five years of diagnosis (5-year survival below 15%) are rare, usually around 10%. The cancers with a poor prognosis include pancreas, biliary tract, lung, liver, oesophagus and mesothelioma. The ACT Cancer Registry had 0.7% of these cases registered during 1995-2004.

### **Histological verification (HV)**

An unusually low HV% suggests incomplete histological notification and consequently poorer verification of diagnosis and incomplete registration of cancers such as melanoma, for which histopathology is often the only source of notification. The higher the proportion of histological verification of diagnosis for cancer of sites that are less accessible, (such as the brain), the more confident one can be that the neoplasm existed and it was primary rather than metastatic.[4] During 1995-2004, 88% of registered cases had a diagnosis on the basis of tissue examination. HV% included only cancers that were diagnosed following tissue or needle biopsy and did not include diagnosis made on the basis of cytology examination, FNA or biochemical verification.

### **Undefined sites**

The portion of undefined sites is only a general indicator of a possible lack in the documentation system of the cases. However, it is difficult to foresee in which direction this distortion will impact on the estimation of cancer survival. The percentage of all cancers that were classified as undefined sites (ICD-10 C26, C39, C48, C76 and C80) in the ACT during 1995-2004 was 3.8%. The recommended range is 2-5%.

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[4] Parkin D, ChenVW, Ferlay J, Galceran J, Storm HH, Whelan SL. Comparability and quality control in cancer registration. Lyon: International Agency for Research on Cancer;1994.

## Appendix D: Life table for ACT 1997-2005

Life Table 1997-1999, ACT.

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
0	100000	0.00442	99617	77.85	0.99558	100000	0.00573	99497	81.8	0.99427
1	99558	0.00052	99530	77.19	0.99948	99427	0.00064	99393	81.27	0.99936
2	99506	0.00029	99490	76.23	0.99971	99364	0.00022	99352	80.32	0.99978
3	99477	0.00022	99466	75.26	0.99978	99342	0.00017	99333	79.34	0.99983
4	99455	0.00017	99446	74.27	0.99983	99325	0.00015	99317	78.35	0.99985
5	99438	0.00012	99432	73.29	0.99988	99310	0.00012	99303	77.36	0.99988
6	99427	0.00009	99422	72.29	0.99991	99298	0.0001	99293	76.37	0.9999
7	99418	0.00008	99413	71.3	0.99992	99288	0.00008	99284	75.38	0.99992
8	99409	0.00008	99405	70.31	0.99992	99281	0.00006	99277	74.38	0.99994
9	99401	0.00008	99397	69.31	0.99992	99274	0.00005	99272	73.39	0.99995
10	99393	0.00008	99389	68.32	0.99992	99269	0.00005	99266	72.39	0.99995
11	99385	0.00008	99380	67.32	0.99992	99264	0.00006	99261	71.4	0.99994
12	99376	0.0001	99372	66.33	0.9999	99257	0.00009	99253	70.4	0.99991
13	99367	0.00014	99360	65.34	0.99986	99249	0.00012	99243	69.41	0.99988
14	99353	0.00022	99343	64.34	0.99978	99236	0.00017	99228	68.42	0.99983
15	99331	0.00036	99314	63.36	0.99964	99219	0.00023	99209	67.43	0.99977
16	99295	0.00054	99270	62.38	0.99946	99197	0.00028	99183	66.44	0.99972
17	99241	0.00072	99207	61.41	0.99928	99169	0.00033	99153	65.46	0.99967
18	99169	0.0009	99126	60.46	0.9991	99136	0.00036	99119	64.48	0.99964
19	99081	0.00103	99031	59.51	0.99897	99101	0.00038	99082	63.51	0.99962
20	98979	0.00111	98925	58.57	0.99889	99063	0.00038	99045	62.53	0.99962
21	98869	0.00114	98813	57.64	0.99886	99026	0.00038	99007	61.55	0.99962
22	98756	0.00115	98700	56.7	0.99885	98988	0.00037	98970	60.58	0.99963
23	98643	0.00116	98585	55.77	0.99884	98952	0.00036	98934	59.6	0.99964
24	98528	0.00117	98471	54.83	0.99883	98916	0.00037	98898	58.62	0.99963
25	98413	0.00119	98355	53.9	0.99881	98880	0.00037	98861	57.64	0.99963
26	98296	0.0012	98237	52.96	0.9988	98843	0.00039	98824	56.66	0.99961
27	98178	0.0012	98119	52.02	0.9988	98805	0.0004	98785	55.68	0.9996
28	98061	0.0012	98002	51.08	0.9988	98765	0.00041	98745	54.71	0.99959
29	97943	0.00119	97885	50.14	0.99881	98725	0.00043	98703	53.73	0.99957
30	97826	0.00119	97768	49.2	0.99881	98682	0.00046	98660	52.75	0.99954
31	97710	0.00119	97652	48.26	0.99881	98637	0.00048	98613	51.78	0.99952
32	97594	0.00118	97536	47.32	0.99882	98590	0.00051	98565	50.8	0.99949
33	97478	0.00118	97421	46.37	0.99882	98540	0.00054	98513	49.83	0.99946
34	97364	0.00117	97306	45.43	0.99883	98486	0.00058	98458	48.85	0.99942
35	97249	0.00117	97192	44.48	0.99883	98430	0.00062	98400	47.88	0.99938
36	97135	0.00118	97078	43.53	0.99882	98369	0.00066	98337	46.91	0.99934
37	97021	0.00119	96963	42.58	0.99881	98304	0.00071	98269	45.94	0.99929
38	96905	0.00121	96846	41.63	0.99879	98233	0.00077	98196	44.97	0.99923
39	96787	0.00124	96727	40.68	0.99876	98158	0.00083	98117	44.01	0.99917
40	96667	0.00128	96605	39.73	0.99872	98076	0.0009	98033	43.04	0.9991
41	96543	0.00133	96479	38.78	0.99867	97988	0.00098	97941	42.08	0.99902
42	96415	0.00138	96349	37.84	0.99862	97892	0.00106	97841	41.12	0.99894
43	96282	0.00144	96213	36.89	0.99856	97789	0.00115	97733	40.16	0.99885
44	96143	0.00152	96071	35.94	0.99848	97676	0.00125	97616	39.21	0.99875
45	95997	0.00161	95921	34.99	0.99839	97554	0.00136	97489	38.26	0.99864
46	95843	0.00172	95761	34.05	0.99828	97421	0.00149	97350	37.31	0.99851
47	95678	0.00185	95590	33.11	0.99815	97277	0.00162	97199	36.37	0.99838
48	95500	0.00202	95405	32.17	0.99798	97119	0.00178	97034	35.42	0.99822
49	95308	0.00221	95204	31.23	0.99779	96946	0.00194	96853	34.49	0.99806

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.

Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.

Px—probability of surviving from age x to age (x+1)

Life Table 1997-1999, ACT. (cont')

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95097	0.00244	94983	30.3	0.99756	96758	0.00213	96656	33.55	0.99787
51	94866	0.0027	94740	29.37	0.9973	96552	0.00234	96441	32.62	0.99766
52	94609	0.00302	94469	28.45	0.99698	96326	0.00256	96205	31.7	0.99744
53	94324	0.00338	94167	27.53	0.99662	96079	0.00281	95946	30.78	0.99719
54	94005	0.0038	93829	26.63	0.9962	95809	0.00309	95663	29.86	0.99691
55	93647	0.00428	93451	25.73	0.99572	95513	0.0034	95353	28.95	0.9966
56	93246	0.00483	93025	24.83	0.99517	95189	0.00373	95014	28.05	0.99627
57	92796	0.00545	92548	23.95	0.99455	94833	0.00411	94641	27.15	0.99589
58	92290	0.00614	92012	23.08	0.99386	94444	0.00451	94234	26.26	0.99549
59	91723	0.00692	91411	22.22	0.99308	94018	0.00496	93788	25.38	0.99504
60	91088	0.00778	90740	21.37	0.99222	93551	0.00545	93300	24.5	0.99455
61	90379	0.00873	89992	20.54	0.99127	93042	0.00598	92768	23.64	0.99402
62	89590	0.00979	89159	19.71	0.99021	92486	0.00656	92187	22.78	0.99344
63	88713	0.01098	88234	18.9	0.98902	91879	0.00719	91554	21.92	0.99281
64	87739	0.0123	87209	18.11	0.9877	91219	0.00789	90864	21.08	0.99211
65	86660	0.01377	86073	17.33	0.98623	90499	0.00866	90113	20.24	0.99134
66	85467	0.01542	84819	16.56	0.98458	89715	0.00952	89294	19.41	0.99048
67	84149	0.01725	83435	15.81	0.98275	88861	0.0105	88401	18.6	0.9895
68	82698	0.01928	81913	15.08	0.98072	87928	0.01162	87425	17.79	0.98838
69	81104	0.02152	80244	14.37	0.97848	86906	0.0129	86355	16.99	0.9871
70	79358	0.024	78419	13.67	0.976	85785	0.01437	85179	16.21	0.98563
71	77454	0.02672	76433	12.99	0.97328	84553	0.01605	83885	15.43	0.98395
72	75384	0.0297	74279	12.34	0.9703	83196	0.01796	82461	14.68	0.98204
73	73145	0.03295	71955	11.7	0.96705	81702	0.02013	80893	13.94	0.97987
74	70735	0.03654	69457	11.08	0.96346	80057	0.02257	79168	13.21	0.97743
75	68151	0.04051	66785	10.48	0.95949	78251	0.02531	77275	12.51	0.97469
76	65390	0.04492	63936	9.9	0.95508	76270	0.02838	75203	11.82	0.97162
77	62453	0.04982	60911	9.35	0.95018	74105	0.03186	72941	11.15	0.96814
78	59341	0.05527	57715	8.81	0.94473	71744	0.03582	70477	10.5	0.96418
79	56061	0.06131	54355	8.29	0.93869	69174	0.04034	67798	9.87	0.95966
80	52624	0.06798	50847	7.8	0.93202	66384	0.04549	64893	9.26	0.95451
81	49047	0.07532	47209	7.34	0.92468	63364	0.05136	61756	8.68	0.94864
82	45353	0.08338	43468	6.89	0.91662	60110	0.05801	58385	8.12	0.94199
83	41571	0.09219	39657	6.47	0.90781	56623	0.0655	54786	7.59	0.9345
84	37739	0.10176	35817	6.08	0.89824	52914	0.0739	50975	7.09	0.9261
85	33898	0.11213	31993	5.71	0.88787	49004	0.08325	46976	6.61	0.91675
86	30097	0.12332	28232	5.37	0.87668	44924	0.09362	42830	6.17	0.90638
87	26386	0.13534	24586	5.06	0.86466	40718	0.10504	38583	5.75	0.89496
88	22814	0.1482	21106	4.77	0.8518	36441	0.11753	34297	5.37	0.88247
89	19433	0.16179	17839	4.52	0.83821	32158	0.13107	30042	5.02	0.86893
90	16289	0.17554	14834	4.29	0.82446	27943	0.14531	25897	4.7	0.85469
91	13430	0.18886	12134	4.1	0.81114	23883	0.15989	21950	4.42	0.84011
92	10893	0.2014	9767	3.94	0.7986	20064	0.1746	18284	4.16	0.8254
93	8699	0.21162	7750	3.81	0.78838	16561	0.18875	14965	3.94	0.81125
94	6859	0.21884	6081	3.71	0.78116	13435	0.20167	12045	3.74	0.79833
95	5358	0.22413	4734	3.61	0.77587	10726	0.21333	9547	3.57	0.78667
96	4157	0.22953	3661	3.51	0.77047	8438	0.22427	7460	3.4	0.77573
97	3203	0.23623	2810	3.42	0.76377	6545	0.23525	5748	3.25	0.76475
98	2446	0.24259	2137	3.33	0.75741	5006	0.24687	4364	3.1	0.75313
99	1853	0.24895	1612	3.24	0.75105	3770	0.25918	3261	2.95	0.74082

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.

Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.

Px—probability of surviving from age x to age (x+1)

Life Table 1998-2000, ACT.

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
0	100000	0.00511	99556	78.25	0.99489	100000	0.00496	99569	82.34	0.99504
1	99489	0.00046	99464	77.65	0.99954	99504	0.00081	99461	81.75	0.99919
2	99443	0.00028	99428	76.69	0.99972	99423	0.00029	99408	80.81	0.99971
3	99415	0.0002	99405	75.71	0.9998	99395	0.00023	99383	79.83	0.99977
4	99396	0.00013	99389	74.73	0.99987	99372	0.0002	99362	78.85	0.9998
5	99383	0.00011	99377	73.74	0.99989	99352	0.00017	99344	77.87	0.99983
6	99372	0.00009	99367	72.74	0.99991	99336	0.00015	99328	76.88	0.99985
7	99362	0.00008	99358	71.75	0.99992	99321	0.00012	99315	75.89	0.99988
8	99354	0.00008	99350	70.76	0.99992	99309	0.0001	99304	74.9	0.9999
9	99346	0.00008	99343	69.76	0.99992	99300	0.00009	99295	73.91	0.99991
10	99339	0.00008	99335	68.77	0.99992	99291	0.00009	99286	72.92	0.99991
11	99331	0.00009	99327	67.77	0.99991	99282	0.00009	99278	71.92	0.99991
12	99322	0.0001	99317	66.78	0.9999	99273	0.00011	99268	70.93	0.99989
13	99312	0.00012	99307	65.79	0.99988	99263	0.00013	99256	69.94	0.99987
14	99301	0.0002	99291	64.79	0.9998	99250	0.00017	99242	68.94	0.99983
15	99280	0.00033	99265	63.81	0.99967	99233	0.00021	99223	67.96	0.99979
16	99247	0.0005	99224	62.83	0.9995	99212	0.00027	99200	66.97	0.99973
17	99198	0.00068	99165	61.86	0.99932	99186	0.00031	99171	65.99	0.99969
18	99130	0.00084	99090	60.9	0.99916	99155	0.00035	99138	65.01	0.99965
19	99047	0.00096	99000	59.95	0.99904	99121	0.00035	99104	64.03	0.99965
20	98951	0.00104	98901	59.01	0.99896	99086	0.00034	99069	63.05	0.99966
21	98849	0.00108	98796	58.07	0.99892	99052	0.00033	99036	62.07	0.99967
22	98742	0.00111	98687	57.13	0.99889	99020	0.00032	99003	61.09	0.99968
23	98633	0.00112	98578	56.19	0.99888	98987	0.00033	98971	60.11	0.99967
24	98522	0.00114	98466	55.26	0.99886	98955	0.00033	98938	59.13	0.99967
25	98410	0.00116	98353	54.32	0.99884	98922	0.00034	98905	58.15	0.99966
26	98295	0.00117	98238	53.38	0.99883	98888	0.00034	98871	57.17	0.99966
27	98180	0.00118	98122	52.44	0.99882	98854	0.00035	98837	56.19	0.99965
28	98064	0.00118	98006	51.51	0.99882	98819	0.00035	98802	55.21	0.99965
29	97948	0.00118	97890	50.57	0.99882	98784	0.00037	98766	54.23	0.99963
30	97832	0.00118	97775	49.63	0.99882	98748	0.00038	98729	53.25	0.99962
31	97717	0.00118	97659	48.68	0.99882	98710	0.0004	98690	52.27	0.9996
32	97602	0.00118	97544	47.74	0.99882	98670	0.00042	98650	51.29	0.99958
33	97487	0.00117	97430	46.8	0.99883	98629	0.00045	98607	50.31	0.99955
34	97373	0.00117	97316	45.85	0.99883	98584	0.00047	98561	49.34	0.99953
35	97259	0.00117	97202	44.9	0.99883	98538	0.00051	98513	48.36	0.99949
36	97145	0.00118	97088	43.96	0.99882	98487	0.00054	98461	47.38	0.99946
37	97031	0.00118	96973	43.01	0.99882	98434	0.0006	98405	46.41	0.9994
38	96916	0.0012	96858	42.06	0.9988	98375	0.00064	98344	45.44	0.99936
39	96800	0.00123	96741	41.11	0.99877	98311	0.00071	98277	44.47	0.99929
40	96681	0.00125	96621	40.16	0.99875	98242	0.00077	98204	43.5	0.99923
41	96560	0.00129	96498	39.21	0.99871	98166	0.00085	98125	42.53	0.99915
42	96435	0.00134	96371	38.26	0.99866	98082	0.00092	98038	41.57	0.99908
43	96306	0.0014	96239	37.31	0.9986	97992	0.00101	97943	40.6	0.99899
44	96172	0.00147	96101	36.36	0.99853	97893	0.0011	97840	39.64	0.9989
45	96030	0.00155	95957	35.41	0.99845	97785	0.00121	97727	38.69	0.99879
46	95882	0.00164	95804	34.47	0.99836	97667	0.00132	97603	37.73	0.99868
47	95724	0.00177	95640	33.52	0.99823	97537	0.00145	97468	36.78	0.99855
48	95555	0.00192	95464	32.58	0.99808	97396	0.00158	97320	35.84	0.99842
49	95372	0.00209	95274	31.64	0.99791	97242	0.00174	97158	34.89	0.99826

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life Table 1998-2000, ACT.(cont')

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95172	0.0023	95065	30.71	0.9977	97073	0.0019	96982	33.95	0.9981
51	94954	0.00255	94835	29.78	0.99745	96888	0.0021	96788	33.02	0.9979
52	94712	0.00283	94580	28.85	0.99717	96684	0.00231	96574	32.08	0.99769
53	94444	0.00316	94297	27.93	0.99684	96461	0.00255	96340	31.16	0.99745
54	94145	0.00356	93981	27.02	0.99644	96215	0.0028	96082	30.24	0.9972
55	93810	0.004	93626	26.11	0.996	95945	0.0031	95799	29.32	0.9969
56	93435	0.00451	93228	25.22	0.99549	95648	0.00341	95487	28.41	0.99659
57	93013	0.00508	92781	24.33	0.99492	95321	0.00376	95145	27.5	0.99624
58	92540	0.00573	92280	23.45	0.99427	94963	0.00414	94769	26.61	0.99586
59	92010	0.00645	91719	22.58	0.99355	94569	0.00456	94357	25.71	0.99544
60	91417	0.00725	91091	21.72	0.99275	94138	0.00501	93906	24.83	0.99499
61	90754	0.00814	90391	20.88	0.99186	93666	0.0055	93413	23.95	0.9945
62	90015	0.00913	89611	20.05	0.99087	93151	0.00604	92874	23.08	0.99396
63	89193	0.01023	88745	19.23	0.98977	92588	0.00664	92285	22.22	0.99336
64	88281	0.01147	87783	18.42	0.98853	91973	0.00729	91643	21.36	0.99271
65	87268	0.01287	86716	17.63	0.98713	91302	0.00804	90941	20.52	0.99196
66	86145	0.01443	85534	16.85	0.98557	90568	0.00888	90173	19.68	0.99112
67	84902	0.01616	84227	16.09	0.98384	89764	0.00983	89330	18.85	0.99017
68	83530	0.01812	82785	15.35	0.98188	88882	0.01092	88405	18.03	0.98908
69	82017	0.02027	81198	14.62	0.97973	87912	0.01216	87386	17.23	0.98784
70	80354	0.02266	79457	13.91	0.97734	86843	0.01359	86262	16.43	0.98641
71	78533	0.0253	77554	13.22	0.9747	85663	0.01521	85022	15.65	0.98479
72	76547	0.02818	75482	12.55	0.97182	84359	0.01706	83652	14.89	0.98294
73	74389	0.03136	73238	11.9	0.96864	82920	0.01915	82139	14.14	0.98085
74	72056	0.03486	70815	11.27	0.96514	81332	0.02148	80473	13.4	0.97852
75	69544	0.03874	68213	10.66	0.96126	79585	0.02411	78641	12.69	0.97589
76	66850	0.04304	65427	10.07	0.95696	77667	0.02704	76632	11.99	0.97296
77	63973	0.04781	62459	9.5	0.95219	75567	0.03034	74437	11.3	0.96966
78	60914	0.0531	59311	8.95	0.9469	73274	0.03413	72041	10.64	0.96587
79	57680	0.05895	55993	8.43	0.94105	70773	0.03848	69430	10	0.96152
80	54280	0.0654	52517	7.92	0.9346	68049	0.04347	66590	9.38	0.95653
81	50730	0.07251	48901	7.44	0.92749	65091	0.0492	63511	8.78	0.9508
82	47052	0.08035	45169	6.98	0.91965	61889	0.05572	60185	8.21	0.94428
83	43271	0.08898	41350	6.55	0.91102	58440	0.06312	56615	7.67	0.93688
84	39420	0.09843	37481	6.14	0.90157	54751	0.07147	52813	7.15	0.92853
85	35540	0.10877	33604	5.76	0.89123	50838	0.08082	48799	6.66	0.91918
86	31675	0.12001	29766	5.4	0.87999	46729	0.09124	44608	6.2	0.90876
87	27873	0.13221	26019	5.06	0.86779	42466	0.10277	40289	5.78	0.89723
88	24188	0.14537	22414	4.76	0.85463	38102	0.11544	35902	5.38	0.88456
89	20672	0.15953	19003	4.49	0.84047	33703	0.12928	31518	5.02	0.87072
90	17374	0.1745	15834	4.24	0.8255	29346	0.1442	27216	4.69	0.8558
91	14342	0.18949	12956	4.04	0.81051	25115	0.15966	23087	4.39	0.84034
92	11624	0.20398	10409	3.87	0.79602	21105	0.17518	19226	4.13	0.82482
93	9253	0.21588	8223	3.73	0.78412	17408	0.18982	15720	3.91	0.81018
94	7256	0.22387	6414	3.63	0.77613	14103	0.20286	12635	3.71	0.79714
95	5631	0.22916	4961	3.53	0.77084	11242	0.21448	10000	3.53	0.78552
96	4341	0.23436	3812	3.44	0.76564	8831	0.22559	7802	3.36	0.77441
97	3324	0.24105	2907	3.35	0.75895	6839	0.23751	5998	3.2	0.76249
98	2522	0.24744	2197	3.26	0.75256	5215	0.25054	4537	3.04	0.74946
99	1898	0.25384	1647	3.17	0.74616	3908	0.26324	3372	2.9	0.73676
100	1416	0.2604	1224	3.09	0.7396	2879	0.27634	2464	2.76	0.72366

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life table 1999-2001, ACT.

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
0	100000	0.00429	99624	78.46	0.99571	100000	0.00324	99717	82.91	0.99676
1	99571	0.00037	99552	77.8	0.99963	99676	0.00048	99649	82.18	0.99952
2	99535	0.0003	99518	76.83	0.9997	99628	0.00021	99617	81.22	0.99979
3	99504	0.0002	99493	75.85	0.9998	99607	0.00018	99598	80.23	0.99982
4	99484	0.00015	99476	74.87	0.99985	99589	0.00016	99581	79.25	0.99984
5	99469	0.00013	99462	73.88	0.99987	99573	0.00014	99566	78.26	0.99986
6	99455	0.00012	99449	72.89	0.99988	99559	0.00012	99553	77.27	0.99988
7	99443	0.00011	99437	71.9	0.99989	99547	0.00009	99543	76.28	0.99991
8	99432	0.0001	99427	70.9	0.9999	99538	0.00008	99534	75.29	0.99992
9	99422	0.0001	99416	69.91	0.9999	99531	0.00006	99527	74.29	0.99994
10	99411	0.0001	99406	68.92	0.9999	99524	0.00006	99522	73.3	0.99994
11	99401	0.0001	99396	67.93	0.9999	99519	0.00006	99516	72.3	0.99994
12	99391	0.00012	99385	66.93	0.99988	99512	0.00008	99509	71.31	0.99992
13	99379	0.00015	99372	65.94	0.99985	99505	0.00009	99500	70.31	0.99991
14	99364	0.00023	99353	64.95	0.99977	99495	0.00012	99490	69.32	0.99988
15	99341	0.00035	99325	63.96	0.99965	99483	0.00017	99476	68.33	0.99983
16	99307	0.00052	99282	62.99	0.99948	99467	0.00021	99457	67.34	0.99979
17	99255	0.00069	99223	62.02	0.99931	99446	0.00026	99434	66.35	0.99974
18	99186	0.0009	99143	61.06	0.9991	99420	0.00029	99406	65.37	0.99971
19	99097	0.00099	99048	60.12	0.99901	99391	0.00032	99376	64.39	0.99968
20	98999	0.00104	98948	59.18	0.99896	99360	0.00032	99344	63.41	0.99968
21	98897	0.00107	98844	58.24	0.99893	99328	0.00032	99312	62.43	0.99968
22	98791	0.0011	98737	57.3	0.9989	99296	0.00031	99281	61.45	0.99969
23	98682	0.00111	98628	56.36	0.99889	99265	0.00031	99250	60.47	0.99969
24	98573	0.00112	98517	55.42	0.99888	99235	0.0003	99219	59.49	0.9997
25	98462	0.00114	98406	54.48	0.99886	99204	0.00031	99189	58.5	0.99969
26	98350	0.00115	98293	53.55	0.99885	99174	0.00032	99158	57.52	0.99968
27	98237	0.00115	98180	52.61	0.99885	99142	0.00032	99126	56.54	0.99968
28	98124	0.00115	98067	51.67	0.99885	99110	0.00033	99094	55.56	0.99967
29	98011	0.00116	97954	50.73	0.99884	99078	0.00034	99061	54.58	0.99966
30	97897	0.00116	97840	49.78	0.99884	99044	0.00036	99027	53.6	0.99964
31	97783	0.00117	97727	48.84	0.99883	99009	0.00037	98990	52.61	0.99963
32	97670	0.00116	97613	47.9	0.99884	98972	0.00039	98953	51.63	0.99961
33	97556	0.00116	97499	46.95	0.99884	98933	0.00041	98913	50.65	0.99959
34	97443	0.00116	97386	46.01	0.99884	98892	0.00045	98870	49.67	0.99955
35	97330	0.00116	97274	45.06	0.99884	98848	0.00048	98824	48.7	0.99952
36	97217	0.00116	97161	44.11	0.99884	98800	0.00053	98774	47.72	0.99947
37	97105	0.00117	97048	43.16	0.99883	98748	0.00058	98720	46.75	0.99942
38	96991	0.00119	96934	42.21	0.99881	98691	0.00063	98660	45.77	0.99937
39	96876	0.00123	96817	41.26	0.99877	98628	0.00069	98595	44.8	0.99931
40	96757	0.00127	96695	40.31	0.99873	98561	0.00075	98524	43.83	0.99925
41	96633	0.00135	96569	39.36	0.99865	98486	0.00083	98446	42.86	0.99917
42	96503	0.00144	96434	38.42	0.99856	98405	0.0009	98361	41.9	0.9991
43	96364	0.00155	96290	37.47	0.99845	98316	0.00099	98268	40.94	0.99901
44	96215	0.00165	96136	36.53	0.99835	98219	0.00108	98166	39.98	0.99892
45	96056	0.00173	95973	35.59	0.99827	98112	0.00118	98055	39.02	0.99882
46	95889	0.00181	95803	34.65	0.99819	97996	0.00129	97934	38.06	0.99871
47	95716	0.00189	95627	33.71	0.99811	97870	0.0014	97803	37.11	0.9986
48	95535	0.00201	95441	32.77	0.99799	97733	0.00152	97660	36.16	0.99848
49	95343	0.00218	95241	31.84	0.99782	97585	0.00165	97506	35.22	0.99835

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life table 1999-2001, ACT. (cont')

MALE						FEMALE				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95136	0.00239	95024	30.91	0.99761	97424	0.0018	97338	34.28	0.9982
51	94909	0.00265	94785	29.98	0.99735	97249	0.00197	97154	33.34	0.99803
52	94658	0.00294	94521	29.06	0.99706	97057	0.00218	96953	32.4	0.99782
53	94379	0.0033	94226	28.14	0.9967	96845	0.00241	96730	31.47	0.99759
54	94068	0.0037	93897	27.23	0.9963	96612	0.00268	96484	30.55	0.99732
55	93719	0.00415	93528	26.33	0.99585	96353	0.00298	96212	29.63	0.99702
56	93330	0.00466	93117	25.44	0.99534	96066	0.00329	95910	28.71	0.99671
57	92895	0.00521	92658	24.56	0.99479	95750	0.00364	95579	27.81	0.99636
58	92412	0.00582	92148	23.68	0.99418	95402	0.00401	95213	26.91	0.99599
59	91874	0.00648	91581	22.82	0.99352	95019	0.00441	94813	26.01	0.99559
60	91278	0.00721	90955	21.96	0.99279	94600	0.00483	94375	25.13	0.99517
61	90621	0.00801	90264	21.12	0.99199	94143	0.00528	93898	24.25	0.99472
62	89895	0.0089	89502	20.29	0.9911	93646	0.00575	93380	23.37	0.99425
63	89095	0.00992	88661	19.46	0.99008	93107	0.00625	92820	22.5	0.99375
64	88212	0.01106	87732	18.65	0.98894	92525	0.00685	92213	21.64	0.99315
65	87236	0.01236	86706	17.86	0.98764	91891	0.00756	91550	20.79	0.99244
66	86158	0.01384	85572	17.07	0.98616	91197	0.00842	90819	19.94	0.99158
67	84966	0.01551	84318	16.3	0.98449	90429	0.00943	90010	19.11	0.99057
68	83648	0.01739	82933	15.55	0.98261	89576	0.01059	89110	18.28	0.98941
69	82193	0.01951	81405	14.82	0.98049	88627	0.0119	88109	17.47	0.9881
70	80590	0.02187	79722	14.1	0.97813	87573	0.01336	86998	16.68	0.98664
71	78827	0.0245	77876	13.41	0.9755	86403	0.01499	85766	15.9	0.98501
72	76896	0.02741	75857	12.73	0.97259	85108	0.01677	84405	15.13	0.98323
73	74789	0.03062	73659	12.08	0.96938	83681	0.01871	82910	14.38	0.98129
74	72499	0.03407	71278	11.44	0.96593	82115	0.02083	81272	13.65	0.97917
75	70029	0.03774	68721	10.83	0.96226	80405	0.02314	79487	12.93	0.97686
76	67386	0.04171	65995	10.23	0.95829	78544	0.02571	77548	12.22	0.97429
77	64575	0.04609	63101	9.66	0.95391	76525	0.0287	75442	11.53	0.9713
78	61599	0.05098	60043	9.1	0.94902	74328	0.0322	73149	10.85	0.9678
79	58459	0.0565	56821	8.56	0.9435	71935	0.03632	70648	10.2	0.96368
80	55156	0.06274	53439	8.04	0.93726	69323	0.04117	67917	9.56	0.95883
81	51695	0.06979	49903	7.55	0.93021	66469	0.04686	64934	8.95	0.95314
82	48088	0.07776	46228	7.08	0.92224	63354	0.05348	61683	8.37	0.94652
83	44349	0.0867	42434	6.63	0.9133	59966	0.0611	58156	7.81	0.9389
84	40503	0.09672	38549	6.21	0.90328	56302	0.06971	54360	7.29	0.93029
85	36586	0.10788	34613	5.82	0.89212	52377	0.07922	50319	6.8	0.92078
86	32639	0.12014	30674	5.47	0.87986	48228	0.08959	46079	6.34	0.91041
87	28718	0.13318	26794	5.15	0.86682	43907	0.10076	41701	5.91	0.89924
88	24893	0.14659	23051	4.86	0.85341	39483	0.11266	37258	5.52	0.88734
89	21244	0.16002	19521	4.61	0.83998	35035	0.12524	32832	5.15	0.87476
90	17845	0.1731	16272	4.39	0.8269	30647	0.13844	28510	4.82	0.86156
91	14756	0.18551	13357	4.21	0.81449	26404	0.15216	24374	4.51	0.84784
92	12018	0.19718	10802	4.06	0.80282	22387	0.16652	20496	4.24	0.83348
93	9649	0.20683	8620	3.94	0.79317	18659	0.18124	16937	3.98	0.81876
94	7653	0.21345	6807	3.84	0.78655	15277	0.19582	13747	3.76	0.80418
95	6019	0.21776	5340	3.75	0.78224	12285	0.20987	10962	3.55	0.79013
96	4709	0.22237	4165	3.66	0.77763	9707	0.22328	8590	3.37	0.77672
97	3662	0.2283	3228	3.57	0.7717	7540	0.2359	6620	3.2	0.7641
98	2826	0.23388	2482	3.48	0.76612	5761	0.24847	5019	3.04	0.75153
99	2165	0.23946	1895	3.4	0.76054	4330	0.26268	3738	2.88	0.73732
100	1646	0.2452	5458	3.32	0.7548	3192	0.2769	8732	2.74	0.7231

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.

Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.

Px—probability of surviving from age x to age (x+1)

Life tables, ACT, 2000-2002

Males						Females				
Age	lx	qx	Lx	ex	px	lx	qx	Lx	ex	px
0	100000	0.00495	99566	79.2	0.99505	100000	0.00285	99750	83.3	0.99715
1	99505	0.00048	99480	78.6	0.99952	99715	0.00043	99691	82.6	0.99957
2	99457	0.00031	99441	77.6	0.99969	99673	0.0002	99662	81.6	0.9998
3	99427	0.00021	99416	76.6	0.99979	99653	0.00014	99646	80.6	0.99986
4	99406	0.00016	99398	75.6	0.99984	99639	0.00011	99633	79.6	0.99989
5	99391	0.00013	99384	74.7	0.99987	99628	0.0001	99623	78.6	0.9999
6	99378	0.00011	99373	73.7	0.99989	99618	0.00009	99613	77.7	0.99991
7	99368	0.00009	99363	72.7	0.99991	99609	0.00009	99604	76.7	0.99991
8	99359	0.00008	99354	71.7	0.99992	99600	0.00008	99596	75.7	0.99992
9	99350	0.00008	99346	70.7	0.99992	99592	0.00008	99588	74.7	0.99992
10	99342	0.00009	99338	69.7	0.99991	99584	0.00007	99580	73.7	0.99993
11	99333	0.00011	99328	68.7	0.99989	99577	0.00008	99573	72.7	0.99992
12	99322	0.00013	99316	67.7	0.99987	99569	0.00008	99565	71.7	0.99992
13	99309	0.00017	99301	66.7	0.99983	99561	0.0001	99556	70.7	0.9999
14	99293	0.00021	99283	65.7	0.99979	99551	0.00013	99545	69.7	0.99987
15	99272	0.00029	99259	64.7	0.99971	99538	0.00018	99530	68.7	0.99982
16	99244	0.00041	99224	63.8	0.99959	99521	0.00023	99510	67.7	0.99977
17	99203	0.00055	99177	62.8	0.99945	99498	0.00028	99485	66.7	0.99972
18	99148	0.00069	99115	61.8	0.99931	99471	0.0003	99456	65.8	0.9997
19	99079	0.00083	99039	60.9	0.99917	99441	0.0003	99426	64.8	0.9997
20	98997	0.00092	98952	59.9	0.99908	99410	0.0003	99396	63.8	0.9997
21	98906	0.00094	98860	59	0.99906	99381	0.00029	99366	62.8	0.99971
22	98813	0.00095	98767	58	0.99905	99352	0.00028	99338	61.8	0.99972
23	98720	0.00096	98672	57.1	0.99904	99325	0.00028	99311	60.8	0.99972
24	98625	0.00098	98576	56.1	0.99902	99297	0.00028	99283	59.9	0.99972
25	98527	0.001	98478	55.2	0.999	99269	0.00029	99255	58.9	0.99971
26	98429	0.00101	98380	54.2	0.99899	99241	0.0003	99226	57.9	0.9997
27	98330	0.00101	98281	53.3	0.99899	99211	0.0003	99196	56.9	0.9997
28	98231	0.00102	98181	52.3	0.99898	99181	0.00031	99166	55.9	0.99969
29	98130	0.00103	98080	51.4	0.99897	99150	0.00032	99134	55	0.99968
30	98030	0.00104	97979	50.5	0.99896	99118	0.00033	99102	54	0.99967
31	97927	0.00104	97876	49.5	0.99896	99085	0.00034	99069	53	0.99966
32	97825	0.00105	97774	48.6	0.99895	99052	0.00035	99034	52	0.99965
33	97723	0.00104	97672	47.6	0.99896	99017	0.00036	98999	51	0.99964
34	97621	0.00104	97570	46.7	0.99896	98981	0.00039	98962	50	0.99961
35	97519	0.00105	97468	45.7	0.99895	98943	0.00042	98922	49.1	0.99958
36	97417	0.00104	97367	44.8	0.99896	98902	0.00044	98880	48.1	0.99956
37	97316	0.00105	97265	43.8	0.99895	98858	0.00048	98834	47.1	0.99952
38	97214	0.00106	97163	42.8	0.99894	98810	0.00053	98784	46.1	0.99947
39	97111	0.00108	97059	41.9	0.99892	98757	0.00058	98729	45.1	0.99942
40	97006	0.00111	96953	40.9	0.99889	98700	0.00064	98669	44.2	0.99936
41	96898	0.00116	96842	40	0.99884	98637	0.00071	98602	43.2	0.99929
42	96785	0.00124	96726	39	0.99876	98567	0.00078	98529	42.2	0.99922
43	96665	0.00133	96602	38.1	0.99867	98490	0.00085	98449	41.3	0.99915
44	96537	0.00145	96467	37.1	0.99855	98406	0.00094	98361	40.3	0.99906
45	96396	0.00158	96321	36.2	0.99842	98314	0.00104	98264	39.3	0.99896
46	96244	0.00169	96163	35.2	0.99831	98212	0.00113	98157	38.4	0.99887
47	96081	0.00179	95996	34.3	0.99821	98101	0.00125	98041	37.4	0.99875
48	95909	0.00189	95820	33.3	0.99811	97978	0.00136	97912	36.5	0.99864
49	95728	0.00201	95633	32.4	0.99799	97845	0.00149	97773	35.5	0.99851

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)



Life tables, ACT, 2000-2002. (cont')

Males						Females				
Age	lx	qx	Lx	ex	px	lx	qx	Lx	ex	px
50	95536	0.00214	95435	31.5	0.99786	97699	0.00164	97620	34.6	0.99836
51	95332	0.00232	95223	30.5	0.99768	97539	0.00181	97452	33.6	0.99819
52	95110	0.00255	94991	29.6	0.99745	97362	0.00202	97266	32.7	0.99798
53	94868	0.00284	94735	28.7	0.99716	97166	0.00224	97059	31.7	0.99776
54	94598	0.00319	94450	27.8	0.99681	96949	0.00243	96832	30.8	0.99757
55	94296	0.00359	94130	26.9	0.99641	96713	0.00263	96587	29.9	0.99737
56	93958	0.00406	93771	25.9	0.99594	96458	0.00289	96321	29	0.99711
57	93576	0.00457	93367	25.1	0.99543	96179	0.00322	96027	28.1	0.99678
58	93149	0.00513	92914	24.2	0.99487	95870	0.00357	95701	27.1	0.99643
59	92670	0.00574	92409	23.3	0.99426	95528	0.00396	95342	26.2	0.99604
60	92138	0.00643	91847	22.4	0.99357	95150	0.00443	94943	25.3	0.99557
61	91546	0.00719	91223	21.6	0.99281	94729	0.0049	94501	24.4	0.9951
62	90888	0.00804	90529	20.7	0.99196	94265	0.00551	94010	23.6	0.99449
63	90158	0.009	89759	19.9	0.991	93746	0.00605	93466	22.7	0.99395
64	89346	0.01007	88904	19.1	0.98993	93179	0.00653	92878	21.8	0.99347
65	88446	0.01128	87956	18.2	0.98872	92570	0.00714	92245	21	0.99286
66	87449	0.01264	86906	17.4	0.98736	91910	0.00786	91554	20.1	0.99214
67	86344	0.01416	85743	16.7	0.98584	91188	0.00863	90800	19.3	0.99137
68	85121	0.01586	84457	15.9	0.98414	90400	0.00966	89971	18.4	0.99034
69	83770	0.01779	83038	15.1	0.98221	89527	0.01081	89051	17.6	0.98919
70	82280	0.01995	81473	14.4	0.98005	88560	0.01201	88036	16.8	0.98799
71	80639	0.02238	79751	13.7	0.97762	87496	0.01331	86924	16	0.98669
72	78835	0.02509	77861	13	0.97491	86332	0.01502	85696	15.2	0.98498
73	76857	0.02813	75791	12.3	0.97187	85035	0.01723	84317	14.4	0.98277
74	74695	0.03151	73534	11.7	0.96849	83570	0.01961	82764	13.7	0.98039
75	72341	0.03525	71083	11	0.96475	81931	0.02192	81046	12.9	0.97808
76	69791	0.03938	68434	10.4	0.96062	80135	0.02456	79168	12.2	0.97544
77	67043	0.04392	65587	9.8	0.95608	78167	0.02812	77087	11.5	0.97188
78	64099	0.04888	62547	9.2	0.95112	75969	0.032	74773	10.8	0.968
79	60966	0.0543	59324	8.7	0.9457	73538	0.0364	72221	10.2	0.9636
80	57655	0.06022	55932	8.2	0.93978	70861	0.04169	69413	9.5	0.95831
81	54183	0.06684	52384	7.6	0.93316	67907	0.04947	66259	8.9	0.95053
82	50561	0.07439	48692	7.2	0.92561	64548	0.0571	62730	8.4	0.9429
83	46800	0.08305	44867	6.7	0.91695	60862	0.06484	58907	7.8	0.93516
84	42913	0.09307	40924	6.2	0.90693	56916	0.0723	54871	7.3	0.9277
85	38920	0.1045	36890	5.8	0.8955	52801	0.08058	50684	6.9	0.91942
86	34852	0.11703	32811	5.5	0.88297	48546	0.08977	46377	6.4	0.91023
87	30774	0.13023	28760	5.1	0.86977	44188	0.10084	41961	6	0.89916
88	26766	0.14373	24826	4.8	0.85627	39732	0.11029	37537	5.6	0.88971
89	22919	0.15714	21095	4.5	0.84286	35350	0.12313	33169	5.3	0.87687
90	19318	0.17015	17646	4.3	0.82985	30998	0.13679	28862	5	0.86321
91	16031	0.1824	14537	4.1	0.8176	26757	0.14894	24741	4.7	0.85106
92	13107	0.19308	11810	3.9	0.80692	22772	0.16141	20906	4.4	0.83859
93	10576	0.20543	9461	3.7	0.79457	19097	0.17333	17410	4.1	0.82667
94	8404	0.21769	7461	3.5	0.78231	15787	0.18606	14287	3.9	0.81394
95	6574	0.22991	5793	3.3	0.77009	12849	0.20087	11530	3.7	0.79913
96	5063	0.24206	4428	3.2	0.75794	10268	0.21803	9118	3.5	0.78197
97	3837	0.25415	3330	3	0.74585	8029	0.2294	7077	3.3	0.7706
98	2862	0.26618	2465	2.9	0.73382	6188	0.24079	5415	3.2	0.75921
99	2100	0.27814	1795	2.8	0.72186	4698	0.25306	4080	3	0.74694
100	1516	0.29007	4033	2.7	0.70993	3509	0.26528	10149	2.9	0.73472

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life tables, ACT, 2001–2003.

Males						Females				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
0	100000	0.00578	99492	79.2	0.99422	100000	0.00271	99760	83.8	0.99729
1	99422	0.00049	99397	78.7	0.99951	99729	0.00030	99712	83.1	0.99970
2	99374	0.00026	99359	77.7	0.99974	99699	0.00019	99689	82.1	0.99981
3	99348	0.00018	99338	76.7	0.99982	99680	0.00015	99673	81.1	0.99985
4	99330	0.00013	99323	75.7	0.99987	99665	0.00012	99659	80.1	0.99988
5	99317	0.00010	99312	74.8	0.99990	99654	0.00010	99649	79.1	0.99990
6	99307	0.00008	99303	73.8	0.99992	99644	0.00008	99640	78.1	0.99992
7	99299	0.00007	99296	72.8	0.99993	99636	0.00007	99633	77.1	0.99993
8	99292	0.00006	99289	71.8	0.99994	99630	0.00006	99626	76.1	0.99994
9	99286	0.00006	99283	70.8	0.99994	99623	0.00006	99620	75.1	0.99994
10	99280	0.00006	99277	69.8	0.99994	99617	0.00006	99614	74.1	0.99994
11	99274	0.00006	99271	68.8	0.99994	99611	0.00007	99608	73.2	0.99993
12	99268	0.00007	99265	67.8	0.99993	99605	0.00008	99601	72.2	0.99992
13	99261	0.00009	99257	66.8	0.99991	99597	0.00010	99592	71.2	0.99990
14	99252	0.00015	99246	65.8	0.99985	99587	0.00013	99581	70.2	0.99987
15	99238	0.00025	99226	64.8	0.99975	99574	0.00018	99566	69.2	0.99982
16	99213	0.00040	99194	63.8	0.99960	99557	0.00024	99546	68.2	0.99976
17	99173	0.00056	99146	62.8	0.99944	99533	0.00029	99519	67.2	0.99971
18	99118	0.00071	99083	61.9	0.99929	99505	0.00031	99489	66.2	0.99969
19	99047	0.00077	99009	60.9	0.99923	99474	0.00031	99458	65.2	0.99969
20	98971	0.00080	98932	60.0	0.99920	99443	0.00031	99427	64.3	0.99969
21	98892	0.00081	98852	59.0	0.99919	99412	0.00030	99397	63.3	0.99970
22	98812	0.00082	98772	58.1	0.99918	99382	0.00028	99368	62.3	0.99972
23	98731	0.00084	98690	57.1	0.99916	99354	0.00028	99340	61.3	0.99972
24	98649	0.00086	98606	56.2	0.99914	99326	0.00028	99312	60.3	0.99972
25	98563	0.00088	98520	55.2	0.99912	99299	0.00028	99285	59.4	0.99972
26	98476	0.00090	98432	54.3	0.99910	99270	0.00029	99256	58.4	0.99971
27	98388	0.00091	98344	53.3	0.99909	99242	0.00030	99227	57.4	0.99970
28	98299	0.00093	98253	52.4	0.99907	99212	0.00031	99197	56.4	0.99969
29	98208	0.00094	98162	51.4	0.99906	99181	0.00031	99166	55.4	0.99969
30	98116	0.00093	98070	50.5	0.99907	99151	0.00032	99135	54.4	0.99968
31	98024	0.00094	97978	49.5	0.99906	99119	0.00033	99102	53.5	0.99967
32	97932	0.00094	97886	48.5	0.99906	99085	0.00035	99068	52.5	0.99965
33	97840	0.00095	97793	47.6	0.99905	99051	0.00037	99033	51.5	0.99963
34	97747	0.00096	97700	46.6	0.99904	99015	0.00040	98995	50.5	0.99960
35	97653	0.00097	97606	45.7	0.99903	98976	0.00042	98955	49.5	0.99958
36	97558	0.00099	97510	44.7	0.99901	98934	0.00045	98912	48.6	0.99955
37	97462	0.00102	97412	43.8	0.99898	98889	0.00049	98865	47.6	0.99951
38	97362	0.00105	97312	42.8	0.99895	98841	0.00053	98815	46.6	0.99947
39	97260	0.00109	97207	41.9	0.99891	98789	0.00058	98760	45.6	0.99942
40	97154	0.00115	97098	40.9	0.99885	98732	0.00063	98701	44.6	0.99937
41	97042	0.00122	96983	39.9	0.99878	98670	0.00070	98636	43.7	0.99930
42	96923	0.00131	96861	39.0	0.99869	98601	0.00076	98564	42.7	0.99924
43	96796	0.00142	96729	38.0	0.99858	98526	0.00083	98486	41.7	0.99917
44	96659	0.00154	96585	37.1	0.99846	98445	0.00091	98401	40.8	0.99909
45	96510	0.00167	96430	36.2	0.99833	98355	0.00100	98307	39.8	0.99900
46	96349	0.00178	96264	35.2	0.99822	98257	0.00109	98204	38.8	0.99891
47	96177	0.00189	96087	34.3	0.99811	98150	0.00119	98092	37.9	0.99881
48	95996	0.00200	95900	33.3	0.99800	98033	0.00130	97970	36.9	0.99870
49	95803	0.00212	95703	32.4	0.99788	97905	0.00142	97837	36.0	0.99858

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life tables, ACT, 2001–2003.(cont')

Males						Females				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95600	0.00227	95493	31.5	0.99773	97767	0.00155	97692	35.0	0.99845
51	95383	0.00245	95267	30.5	0.99755	97615	0.00171	97533	34.1	0.99829
52	95149	0.00268	95024	29.6	0.99732	97448	0.00190	97357	33.1	0.99810
53	94894	0.00296	94756	28.7	0.99704	97263	0.00211	97163	32.2	0.99789
54	94614	0.00329	94461	27.8	0.99671	97058	0.00233	96947	31.3	0.99767
55	94302	0.00371	94131	26.9	0.99629	96832	0.00259	96709	30.3	0.99741
56	93953	0.00419	93760	26.0	0.99581	96582	0.00287	96445	29.4	0.99713
57	93559	0.00472	93343	25.1	0.99528	96305	0.00316	96155	28.5	0.99684
58	93118	0.00531	92875	24.2	0.99469	96001	0.00347	95837	27.6	0.99653
59	92623	0.00596	92352	23.3	0.99404	95667	0.00380	95488	26.7	0.99620
60	92072	0.00666	91770	22.5	0.99334	95303	0.00416	95108	25.8	0.99584
61	91459	0.00742	91125	21.6	0.99258	94907	0.00456	94693	24.9	0.99544
62	90780	0.00826	90411	20.8	0.99174	94474	0.00501	94241	24.0	0.99499
63	90030	0.00920	89622	19.9	0.99080	94001	0.00551	93746	23.1	0.99449
64	89202	0.01024	88752	19.1	0.98976	93483	0.00607	93203	22.2	0.99393
65	88288	0.01139	87794	18.3	0.98861	92915	0.00673	92608	21.4	0.99327
66	87283	0.01267	86739	17.5	0.98733	92290	0.00748	91950	20.5	0.99252
67	86177	0.01411	85579	16.7	0.98589	91599	0.00834	91224	19.7	0.99166
68	84962	0.01575	84303	16.0	0.98425	90836	0.00930	90420	18.8	0.99070
69	83623	0.01760	82899	15.2	0.98240	89991	0.01041	89530	18.0	0.98959
70	82151	0.01970	81355	14.5	0.98030	89054	0.01168	88543	17.2	0.98832
71	80533	0.02208	79658	13.7	0.97792	88014	0.01310	87447	16.4	0.98690
72	78755	0.02474	77795	13.0	0.97526	86860	0.01470	86232	15.6	0.98530
73	76806	0.02773	75757	12.4	0.97227	85583	0.01649	84889	14.8	0.98351
74	74677	0.03106	73533	11.7	0.96894	84172	0.01848	83406	14.1	0.98152
75	72357	0.03476	71116	11.1	0.96524	82616	0.02070	81774	13.3	0.97930
76	69842	0.03885	68502	10.4	0.96115	80906	0.02324	79981	12.6	0.97676
77	67129	0.04335	65690	9.8	0.95665	79026	0.02618	78008	11.9	0.97382
78	64219	0.04829	62684	9.3	0.95171	76957	0.02961	75836	11.2	0.97039
79	61117	0.05369	59491	8.7	0.94631	74678	0.03365	73442	10.5	0.96635
80	57836	0.05959	56126	8.2	0.94041	72165	0.03837	70803	9.9	0.96163
81	54389	0.06618	52602	7.7	0.93382	69396	0.04385	67898	9.2	0.95615
82	50790	0.07369	48930	7.2	0.92631	66353	0.05019	64712	8.6	0.94981
83	47047	0.08229	45121	6.7	0.91771	63022	0.05743	61237	8.1	0.94257
84	43176	0.09219	41193	6.3	0.90781	59403	0.06560	57477	7.5	0.93440
85	39195	0.10349	37171	5.8	0.89651	55506	0.07470	53452	7.0	0.92530
86	35139	0.11590	33101	5.5	0.88410	51360	0.08470	49200	6.5	0.91530
87	31066	0.12907	29052	5.1	0.87093	47010	0.09559	44772	6.1	0.90441
88	27056	0.14268	25110	4.8	0.85732	42516	0.10737	40236	5.7	0.89263
89	23196	0.15641	21359	4.5	0.84359	37951	0.11999	35670	5.3	0.88001
90	19568	0.16995	17878	4.2	0.83005	33397	0.13346	31157	5.0	0.86654
91	16242	0.18305	14725	4.0	0.81695	28940	0.14771	26784	4.7	0.85229
92	13269	0.19508	11943	3.8	0.80492	24665	0.16294	22631	4.4	0.83706
93	10681	0.20803	9540	3.6	0.79197	20646	0.17837	18773	4.1	0.82163
94	8459	0.22091	7496	3.4	0.77909	16964	0.19224	15295	3.9	0.80776
95	6590	0.23372	5794	3.3	0.76628	13703	0.20384	12267	3.7	0.79616
96	5050	0.24647	4404	3.1	0.75353	10909	0.21387	9706	3.6	0.78613
97	3805	0.25914	3292	3.0	0.74086	8576	0.22383	7584	3.4	0.77617
98	2819	0.27173	2419	2.8	0.72827	6657	0.23490	5847	3.3	0.76510
99	2053	0.28424	1748	2.7	0.71576	5093	0.24674	4441	3.1	0.75326
100	1470	0.29677	3806	2.6	0.70323	3836	0.25818	11464	3.0	0.74182

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life tables, ACT, 2002–2004.

Males						Females				
Age	$l_x$	$q_x$	$L_x$	$e^{\circ}x$	$p_x$	$l_x$	$q_x$	$L_x$	$e^{\circ}x$	$p_x$
0	100000	0.00597	99477	79.7	0.99403	100000	0.00546	99516	83.9	0.99454
1	99403	0.00066	99369	79.1	0.99934	99454	0.00036	99434	83.4	0.99964
2	99338	0.00019	99327	78.2	0.99981	99418	0.00022	99407	82.4	0.99978
3	99320	0.00016	99312	77.2	0.99984	99397	0.00017	99388	81.4	0.99983
4	99304	0.00014	99297	76.2	0.99986	99380	0.00012	99373	80.4	0.99988
5	99290	0.00013	99284	75.2	0.99987	99367	0.00010	99362	79.4	0.99990
6	99278	0.00012	99272	74.2	0.99988	99358	0.00008	99354	78.4	0.99992
7	99266	0.00011	99261	73.3	0.99989	99350	0.00007	99346	77.5	0.99993
8	99255	0.00010	99250	72.3	0.99990	99343	0.00006	99340	76.5	0.99994
9	99245	0.00010	99240	71.3	0.99990	99337	0.00006	99334	75.5	0.99994
10	99235	0.00010	99230	70.3	0.99990	99331	0.00006	99328	74.5	0.99994
11	99226	0.00010	99221	69.3	0.99990	99325	0.00007	99321	73.5	0.99993
12	99216	0.00010	99211	68.3	0.99990	99318	0.00009	99314	72.5	0.99991
13	99206	0.00011	99201	67.3	0.99989	99309	0.00011	99304	71.5	0.99989
14	99196	0.00014	99189	66.3	0.99986	99299	0.00013	99292	70.5	0.99987
15	99182	0.00019	99173	65.3	0.99981	99285	0.00017	99277	69.5	0.99983
16	99163	0.00031	99149	64.3	0.99969	99268	0.00023	99257	68.5	0.99977
17	99133	0.00045	99111	63.3	0.99955	99245	0.00027	99232	67.5	0.99973
18	99088	0.00060	99059	62.4	0.99940	99218	0.00030	99203	66.5	0.99970
19	99028	0.00068	98995	61.4	0.99932	99188	0.00031	99173	65.6	0.99969
20	98961	0.00070	98926	60.4	0.99930	99158	0.00030	99142	64.6	0.99970
21	98892	0.00071	98857	59.5	0.99929	99127	0.00029	99113	63.6	0.99971
22	98822	0.00070	98787	58.5	0.99930	99099	0.00027	99085	62.6	0.99973
23	98752	0.00070	98718	57.6	0.99930	99072	0.00027	99058	61.6	0.99973
24	98683	0.00070	98649	56.6	0.99930	99045	0.00026	99032	60.7	0.99974
25	98614	0.00072	98578	55.7	0.99928	99019	0.00027	99006	59.7	0.99973
26	98543	0.00074	98506	54.7	0.99926	98992	0.00028	98978	58.7	0.99972
27	98470	0.00076	98432	53.7	0.99924	98964	0.00028	98950	57.7	0.99972
28	98395	0.00077	98357	52.8	0.99923	98936	0.00029	98922	56.7	0.99971
29	98319	0.00078	98281	51.8	0.99922	98907	0.00030	98892	55.7	0.99970
30	98242	0.00079	98204	50.9	0.99921	98877	0.00031	98862	54.8	0.99969
31	98165	0.00081	98125	49.9	0.99919	98846	0.00032	98831	53.8	0.99968
32	98085	0.00082	98045	48.9	0.99918	98815	0.00032	98799	52.8	0.99968
33	98005	0.00083	97964	48.0	0.99917	98783	0.00034	98766	51.8	0.99966
34	97924	0.00085	97882	47.0	0.99915	98749	0.00036	98732	50.8	0.99964
35	97841	0.00086	97799	46.1	0.99914	98714	0.00038	98695	49.8	0.99962
36	97756	0.00089	97713	45.1	0.99911	98676	0.00041	98656	48.9	0.99959
37	97669	0.00092	97625	44.1	0.99908	98636	0.00044	98615	47.9	0.99956
38	97580	0.00096	97533	43.2	0.99904	98593	0.00046	98570	46.9	0.99954
39	97486	0.00101	97437	42.2	0.99899	98547	0.00051	98522	45.9	0.99949
40	97387	0.00108	97335	41.3	0.99892	98497	0.00055	98470	44.9	0.99945
41	97282	0.00116	97227	40.3	0.99884	98443	0.00060	98413	44.0	0.99940
42	97170	0.00126	97109	39.3	0.99874	98383	0.00066	98351	43.0	0.99934
43	97047	0.00138	96981	38.4	0.99862	98318	0.00072	98284	42.0	0.99928
44	96913	0.00152	96840	37.4	0.99848	98248	0.00079	98209	41.1	0.99921
45	96765	0.00167	96686	36.5	0.99833	98170	0.00087	98127	40.1	0.99913
46	96604	0.00182	96517	35.6	0.99818	98084	0.00095	98038	39.1	0.99905
47	96428	0.00194	96335	34.6	0.99806	97990	0.00104	97940	38.2	0.99896
48	96240	0.00207	96142	33.7	0.99793	97888	0.00114	97833	37.2	0.99886
49	96041	0.00220	95936	32.8	0.99780	97777	0.00124	97717	36.2	0.99876

$l_x$  — number of persons at exact age  $x$ .  $q_x$  — proportion dying between exact age  $x$  and exact age  $x+1$ .  
 $L_x$  — number of person years lived within the age interval  $x$  to  $x+1$ .  $e^{\circ}x$  — expectation of life at exact age  $x$ .  
 $p_x$ —probability of surviving from age  $x$  to age  $(x+1)$

Life tables, ACT, 2002–2004.(cont')

Males						Females				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95830	0.00235	95719	31.8	0.99765	97656	0.00134	97591	35.3	0.99866
51	95605	0.00253	95485	30.9	0.99747	97525	0.00146	97455	34.3	0.99854
52	95363	0.00274	95234	30.0	0.99726	97383	0.00158	97307	33.4	0.99842
53	95102	0.00299	94962	29.1	0.99701	97229	0.00173	97146	32.4	0.99827
54	94818	0.00330	94664	28.2	0.99670	97061	0.00191	96970	31.5	0.99809
55	94505	0.00367	94335	27.2	0.99633	96875	0.00214	96773	30.5	0.99786
56	94158	0.00412	93968	26.3	0.99588	96668	0.00240	96554	29.6	0.99760
57	93771	0.00463	93557	25.4	0.99537	96436	0.00270	96309	28.7	0.99730
58	93336	0.00518	93099	24.6	0.99482	96176	0.00305	96032	27.8	0.99695
59	92853	0.00576	92590	23.7	0.99424	95883	0.00344	95721	26.8	0.99656
60	92318	0.00639	92028	22.8	0.99361	95553	0.00386	95372	25.9	0.99614
61	91728	0.00708	91408	22.0	0.99292	95184	0.00432	94982	25.0	0.99568
62	91078	0.00785	90726	21.1	0.99215	94773	0.00481	94548	24.1	0.99519
63	90363	0.00872	89976	20.3	0.99128	94317	0.00533	94069	23.2	0.99467
64	89575	0.00970	89148	19.5	0.99030	93814	0.00589	93542	22.4	0.99411
65	88707	0.01080	88235	18.6	0.98920	93261	0.00646	92965	21.5	0.99354
66	87748	0.01205	87228	17.8	0.98795	92659	0.00709	92335	20.6	0.99291
67	86691	0.01348	86116	17.1	0.98652	92002	0.00782	91648	19.8	0.99218
68	85522	0.01507	84889	16.3	0.98493	91283	0.00865	90894	18.9	0.99135
69	84234	0.01686	83535	15.5	0.98314	90493	0.00963	90064	18.1	0.99037
70	82814	0.01886	82045	14.8	0.98114	89621	0.01079	89146	17.3	0.98921
71	81252	0.02108	80409	14.1	0.97892	88654	0.01216	88125	16.4	0.98784
72	79539	0.02355	78616	13.3	0.97645	87576	0.01375	86985	15.6	0.98625
73	77666	0.02630	76660	12.7	0.97370	86372	0.01561	85711	14.9	0.98439
74	75624	0.02937	74528	12.0	0.97063	85024	0.01776	84283	14.1	0.98224
75	73403	0.03280	72215	11.3	0.96720	83514	0.02023	82685	13.3	0.97977
76	70995	0.03662	69712	10.7	0.96338	81824	0.02304	80899	12.6	0.97696
77	68395	0.04088	67014	10.1	0.95912	79940	0.02623	78909	11.9	0.97377
78	65600	0.04561	64120	9.5	0.95439	77843	0.02981	76702	11.2	0.97019
79	62608	0.05083	61032	8.9	0.94917	75522	0.03383	74265	10.5	0.96617
80	59426	0.05663	57758	8.4	0.94337	72967	0.03840	71587	9.9	0.96160
81	56060	0.06315	54305	7.8	0.93685	70165	0.04361	68657	9.2	0.95639
82	52520	0.07062	50680	7.3	0.92938	67106	0.04958	65465	8.6	0.95042
83	48811	0.07921	46891	6.9	0.92079	63779	0.05641	62002	8.1	0.94359
84	44945	0.08903	42954	6.4	0.91097	60181	0.06421	58271	7.5	0.93579
85	40943	0.09995	38902	6.0	0.90005	56317	0.07304	54280	7.0	0.92696
86	36851	0.11179	34790	5.6	0.88821	52204	0.08302	50053	6.5	0.91698
87	32732	0.12433	30689	5.2	0.87567	47870	0.09419	45628	6.0	0.90581
88	28662	0.13742	26678	4.9	0.86258	43361	0.10664	41055	5.6	0.89336
89	24723	0.15086	22838	4.6	0.84914	38737	0.12036	36405	5.2	0.87964
90	20993	0.16450	19241	4.3	0.83550	34075	0.13511	31763	4.9	0.86489
91	17540	0.17815	15948	4.1	0.82185	29471	0.15044	27235	4.6	0.84956
92	14415	0.19116	13006	3.9	0.80884	25037	0.16592	22933	4.3	0.83408
93	11660	0.20421	10438	3.7	0.79579	20883	0.18116	18957	4.0	0.81884
94	9279	0.21718	8241	3.5	0.78282	17100	0.19523	15392	3.8	0.80477
95	7263	0.23009	6400	3.3	0.76991	13762	0.20775	12292	3.6	0.79225
96	5592	0.24290	4888	3.1	0.75710	10903	0.21946	9669	3.4	0.78054
97	4234	0.25564	3671	3.0	0.74436	8510	0.23149	7492	3.3	0.76851
98	3151	0.26829	2711	2.9	0.73171	6540	0.24421	5712	3.1	0.75579
99	2306	0.28084	1967	2.7	0.71916	4943	0.25702	4282	3.0	0.74298
100	1658	0.29341	1434	2.6	0.70659	3672	0.27001	3092	2.8	0.72999

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.  
Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.  
Px—probability of surviving from age x to age (x+1)

Life tables, ACT, 2003–2005.

Males						Females				
Age	$l_x$	$q_x$	$L_x$	$e^{\circ}x$	$p_x$	$l_x$	$q_x$	$L_x$	$e^{\circ}x$	$p_x$
0	100000	0.00547	99517	79.9	0.99453	100000	0.00650	99425	84.0	0.99350
1	99453	0.00049	99426	79.4	0.99951	99350	0.00031	99333	83.6	0.99969
2	99404	0.00023	99391	78.4	0.99977	99319	0.00021	99307	82.6	0.99979
3	99381	0.00019	99371	77.4	0.99981	99297	0.00016	99289	81.6	0.99984
4	99362	0.00016	99353	76.4	0.99984	99281	0.00013	99275	80.7	0.99987
5	99345	0.00014	99338	75.5	0.99986	99268	0.00010	99263	79.7	0.99990
6	99332	0.00012	99325	74.5	0.99988	99259	0.00008	99254	78.7	0.99992
7	99320	0.00010	99315	73.5	0.99990	99251	0.00006	99247	77.7	0.99994
8	99310	0.00009	99305	72.5	0.99991	99244	0.00005	99241	76.7	0.99995
9	99301	0.00008	99297	71.5	0.99992	99239	0.00005	99236	75.7	0.99995
10	99293	0.00008	99289	70.5	0.99992	99234	0.00005	99231	74.7	0.99995
11	99285	0.00008	99281	69.5	0.99992	99228	0.00006	99226	73.7	0.99994
12	99277	0.00008	99274	68.5	0.99992	99222	0.00007	99219	72.7	0.99993
13	99270	0.00009	99265	67.5	0.99991	99215	0.00009	99211	71.7	0.99991
14	99261	0.00012	99255	66.5	0.99988	99206	0.00013	99200	70.7	0.99987
15	99249	0.00020	99240	65.5	0.99980	99193	0.00017	99185	69.7	0.99983
16	99230	0.00031	99215	64.5	0.99969	99176	0.00022	99165	68.7	0.99978
17	99199	0.00045	99178	63.6	0.99955	99154	0.00025	99142	67.7	0.99975
18	99154	0.00061	99125	62.6	0.99939	99129	0.00027	99116	66.8	0.99973
19	99093	0.00070	99059	61.6	0.99930	99103	0.00028	99089	65.8	0.99972
20	99024	0.00074	98987	60.7	0.99926	99075	0.00028	99061	64.8	0.99972
21	98950	0.00076	98913	59.7	0.99924	99047	0.00028	99033	63.8	0.99972
22	98876	0.00075	98838	58.8	0.99925	99019	0.00027	99006	62.8	0.99973
23	98802	0.00074	98765	57.8	0.99926	98992	0.00027	98979	61.9	0.99973
24	98729	0.00074	98692	56.8	0.99926	98966	0.00027	98953	60.9	0.99973
25	98656	0.00075	98619	55.9	0.99925	98939	0.00028	98926	59.9	0.99972
26	98582	0.00077	98544	54.9	0.99923	98911	0.00029	98897	58.9	0.99971
27	98506	0.00079	98468	54.0	0.99921	98883	0.00029	98869	57.9	0.99971
28	98429	0.00080	98390	53.0	0.99920	98854	0.00031	98839	56.9	0.99969
29	98350	0.00082	98310	52.0	0.99918	98823	0.00031	98808	56.0	0.99969
30	98269	0.00083	98229	51.1	0.99917	98792	0.00033	98776	55.0	0.99967
31	98188	0.00083	98148	50.1	0.99917	98760	0.00035	98743	54.0	0.99965
32	98107	0.00084	98065	49.2	0.99916	98725	0.00037	98707	53.0	0.99963
33	98024	0.00085	97983	48.2	0.99915	98688	0.00040	98669	52.0	0.99960
34	97941	0.00086	97899	47.3	0.99914	98649	0.00042	98628	51.0	0.99958
35	97857	0.00087	97815	46.3	0.99913	98608	0.00046	98585	50.1	0.99954
36	97772	0.00089	97729	45.3	0.99911	98562	0.00049	98538	49.1	0.99951
37	97685	0.00092	97641	44.4	0.99908	98514	0.00053	98488	48.1	0.99947
38	97596	0.00096	97549	43.4	0.99904	98462	0.00058	98434	47.1	0.99942
39	97502	0.00102	97453	42.5	0.99898	98405	0.00062	98375	46.2	0.99938
40	97403	0.00109	97350	41.5	0.99891	98344	0.00068	98311	45.2	0.99932
41	97297	0.00117	97240	40.5	0.99883	98277	0.00074	98241	44.2	0.99926
42	97183	0.00126	97122	39.6	0.99874	98204	0.00081	98165	43.3	0.99919
43	97060	0.00137	96995	38.6	0.99863	98124	0.00087	98082	42.3	0.99913
44	96928	0.00146	96858	37.7	0.99854	98039	0.00095	97993	41.3	0.99905
45	96786	0.00158	96710	36.7	0.99842	97945	0.00102	97896	40.4	0.99898
46	96633	0.00169	96553	35.8	0.99831	97845	0.00111	97791	39.4	0.99889
47	96470	0.00180	96384	34.9	0.99820	97736	0.00120	97678	38.5	0.99880
48	96296	0.00194	96204	33.9	0.99806	97619	0.00130	97557	37.5	0.99870
49	96109	0.00208	96010	33.0	0.99792	97493	0.00140	97425	36.5	0.99860

$l_x$  — number of persons at exact age  $x$ .  $q_x$  — proportion dying between exact age  $x$  and exact age  $x+1$ .

$L_x$  — number of person years lived within the age interval  $x$  to  $x+1$ .  $e^{\circ}x$  — expectation of life at exact age  $x$ .

$p_x$ —probability of surviving from age  $x$  to age  $(x+1)$

Life tables, ACT, 2003–2005.(cont')

Males						Females				
Age	lx	qx	Lx	e <sup>o</sup> x	px	lx	qx	Lx	e <sup>o</sup> x	px
50	95909	0.00225	95802	32.1	0.99775	97356	0.00150	97284	35.6	0.99850
51	95693	0.00245	95577	31.1	0.99755	97210	0.00161	97132	34.7	0.99839
52	95459	0.00267	95333	30.2	0.99733	97053	0.00175	96969	33.7	0.99825
53	95203	0.00293	95066	29.3	0.99707	96883	0.00190	96792	32.8	0.99810
54	94924	0.00324	94773	28.4	0.99676	96699	0.00208	96600	31.8	0.99792
55	94617	0.00358	94450	27.5	0.99642	96498	0.00227	96390	30.9	0.99773
56	94277	0.00398	94093	26.6	0.99602	96279	0.00251	96160	30.0	0.99749
57	93902	0.00444	93697	25.7	0.99556	96037	0.00278	95906	29.0	0.99722
58	93485	0.00495	93258	24.8	0.99505	95770	0.00310	95624	28.1	0.99690
59	93023	0.00552	92771	23.9	0.99448	95473	0.00346	95311	27.2	0.99654
60	92509	0.00616	92229	23.0	0.99384	95142	0.00388	94961	26.3	0.99612
61	91939	0.00688	91628	22.2	0.99312	94773	0.00433	94572	25.4	0.99567
62	91306	0.00767	90962	21.3	0.99233	94363	0.00479	94141	24.5	0.99521
63	90606	0.00855	90225	20.5	0.99145	93911	0.00524	93669	23.6	0.99476
64	89831	0.00951	89411	19.6	0.99049	93419	0.00574	93155	22.7	0.99426
65	88977	0.01057	88514	18.8	0.98943	92883	0.00627	92596	21.9	0.99373
66	88036	0.01175	87527	18.0	0.98825	92301	0.00687	91989	21.0	0.99313
67	87002	0.01309	86442	17.2	0.98691	91667	0.00756	91326	20.1	0.99244
68	85863	0.01459	85247	16.5	0.98541	90974	0.00837	90599	19.3	0.99163
69	84610	0.01630	83932	15.7	0.98370	90212	0.00931	89799	18.5	0.99069
70	83231	0.01823	82484	14.9	0.98177	89372	0.01041	88915	17.6	0.98959
71	81714	0.02040	80893	14.2	0.97960	88442	0.01168	87934	16.8	0.98832
72	80047	0.02283	79147	13.5	0.97717	87409	0.01314	86845	16.0	0.98686
73	78220	0.02554	77235	12.8	0.97446	86260	0.01483	85632	15.2	0.98517
74	76222	0.02857	75148	12.1	0.97143	84980	0.01676	84281	14.4	0.98324
75	74044	0.03192	72878	11.5	0.96808	83556	0.01895	82779	13.7	0.98105
76	71680	0.03564	70419	10.8	0.96436	81973	0.02147	81108	12.9	0.97853
77	69126	0.03978	67768	10.2	0.96022	80213	0.02438	79252	12.2	0.97562
78	66376	0.04444	64918	9.6	0.95556	78257	0.02776	77190	11.5	0.97224
79	63426	0.04971	61867	9.0	0.95029	76085	0.03166	74901	10.8	0.96834
80	60274	0.05564	58613	8.5	0.94436	73676	0.03616	72366	10.1	0.96384
81	56920	0.06233	55162	7.9	0.93767	71012	0.04129	69569	9.5	0.95871
82	53372	0.06983	51523	7.4	0.93017	68080	0.04714	66499	8.9	0.95286
83	49645	0.07822	47716	7.0	0.92178	64871	0.05375	63151	8.3	0.94625
84	45762	0.08755	43767	6.5	0.91245	61384	0.06117	59529	7.7	0.93883
85	41756	0.09728	39724	6.1	0.90272	57629	0.06946	55647	7.2	0.93054
86	37693	0.10619	35687	5.7	0.89381	53627	0.07865	51534	6.7	0.92135
87	33691	0.11773	31705	5.3	0.88227	49409	0.08892	47226	6.2	0.91108
88	29724	0.13187	27758	4.9	0.86813	45016	0.10095	42755	5.8	0.89905
89	25804	0.14747	23888	4.6	0.85253	40471	0.11506	38148	5.4	0.88494
90	21999	0.16348	20180	4.3	0.83652	35814	0.12988	33483	5.0	0.87012
91	18403	0.17889	16726	4.1	0.82111	31163	0.14486	28889	4.7	0.85514
92	15111	0.19016	13640	3.9	0.80984	26649	0.15977	24494	4.4	0.84023
93	12237	0.20381	10959	3.6	0.79619	22391	0.17441	20406	4.1	0.82559
94	9743	0.21732	8654	3.5	0.78268	18486	0.18821	16709	3.9	0.81179
95	7626	0.23075	6717	3.3	0.76925	15007	0.20101	13460	3.7	0.79899
96	5866	0.24410	5124	3.1	0.75590	11990	0.21335	10674	3.5	0.78665
97	4434	0.25736	3841	3.0	0.74264	9432	0.22596	8333	3.3	0.77404
98	3293	0.27052	2828	2.8	0.72948	7301	0.23905	6398	3.2	0.76095
99	2402	0.28358	2046	2.7	0.71642	5556	0.25224	4828	3.0	0.74776
100	1721	0.29667 (a)	4444	2.6	0.70333	4154	0.26561 a)	11913	2.9	0.73439

lx — number of persons at exact age x. qx — proportion dying between exact age x and exact age x+1.

Lx — number of person years lived within the age interval x to x+1. e<sup>o</sup>x — expectation of life at exact age x.

Px—probability of surviving from age x to age (x+1)

## Appendix E: Incidence and mortality of cancer in the ACT, 2000-2004

	<u>Incidence</u>				<u>Mortality</u>			
	Male		Female		Male		Female	
	Cases	Rate	Cases	Rate	Deaths	Rate	Deaths	Rate
<b>All cancers</b>	<b>3021</b>	<b>325.2</b>	<b>2781</b>	<b>263.9</b>	<b>1112</b>	<b>117.5</b>	<b>900</b>	<b>80.7</b>
Lip	15	1.5	5	0.4	1	0.1	0	-
Tongue	15	1.5	10	0.8	5	0.4	3	0.1
Mouth	19	1.9	11	1.2	7	0.7	0	-
Salivary glands	6	0.7	9	1.1	1	0.1	3	0.3
Oropharynx	15	1.7	6	0.5	7	0.7	2	0.2
Nasopharynx	2	0.3	2	0.3	1	0.1	1	0.2
Hypopharynx	5	0.6	1	0.1	5	0.5	2	0.2
Other oral cavity and pharynx	1	0.1	0	-	1	0.1	0	-
Head and neck	89	9.5	45	4.6	40	4	14	1.2
Oesophagus	47	5.2	24	2	32	3.4	14	1.3
Stomach	63	6.5	47	4.3	47	5	33	3.1
Small intestine	12	1.4	11	0.9	5	0.6	3	0.2
Colon	263	28.9	251	23	99	10.5	97	9
Rectum, rectosigmoid, anus	182	19.1	111	9.6	51	5.5	34	2.6
Colorectal (Large bowel)	445	48	362	32.6	150	15.9	131	11.6
Liver	38	4.1	18	1.7	29	2.9	14	1.3
Gall bladder	10	1.1	20	1.7	12	1.2	13	1.1
Pancreas	43	4.5	37	3.3	38	4	35	3
Nose, sinus	8	0.9	4	0.4	3	0.3	3	0.2
Larynx	21	2.2	4	0.3	11	1	1	0.1
Lung	235	24.5	132	12.4	195	20.8	99	9.7
Bone	8	0.9	4	0.4	2	0.2	1	0.2
Melanoma	297	31.2	260	24.7	41	4.6	12	1.2
Mesothelioma	21	2.4	1	0.1	20	2.3	1	0.1
Connective tissue	17	1.7	11	1	8	0.8	6	0.4
Breast	5	0.5	979	94.7	1	0.1	163	15.2
Cervix	-	-	53	5.3	-	-	12	1.3
Uterus	-	-	107	10.7	-	-	2.7	4.2
Ovary	-	-	87	8.5	-	-	50	4.3
Placenta	-	-	1	0.1	-	-	0	-
Prostate	858	94	-	-	140	14.9	-	-
Testis	67	7	-	-	1	0.1	-	-
Kidney	101	10.4	70	6.8	32	3.2	28	2.3
Bladder	109	11	36	3	47	4.6	18	1.4
Eye	14	1.6	13	1.3	2	0.2	1	0.04
Brain	58	6.5	38	3.6	49	5.3	24	2.2
Central nervous system	3	0.4	6	0.6	0	-	1	0.1
Thyroid	21	2.2	69	7.1	1	0.1	2	0.2
Hodgkin's disease	17	2	12	1.4	1	0.1	4	0.5
Non-hodgkin's lymphoma	153	17.1	102	9.8	60	6.4	46	4.1
Multiple myeloma	35	3.6	27	2.4	21	2.2	13	1.1
Acute lymphoid leukaemia	12	2.1	9	1.5	3	0.4	3	0.3
Other lymphoid leukaemia	31	3	11	1.1	13	1.2	8	0.9
Acute myeloid leukaemia	32	3.5	25	2.1	20	2.2	14	1
All leukaemia	103	11.5	62	6.3	47	5	28	2.5
Indefinite & unspecified site	113	12.1	113	9.5	84	8.8	97	7.8

Rate: Age standardised rate per 100,000 population (standardised to World Standard Population 1960)

Source: Li J, Sexton R. Cancer in the ACT, 1998-2004. ACT Health. Health series number 42.



## Appendix F: Comparison of cancer survival with other jurisdictions

### 5-year survival, percent

Cancer site	ACT 2000-2004 <sup>^</sup>		NSW 1999-2003 <sup>#</sup>		VIC 2000-2004 <sup>^</sup>		AUS 2002-2006 <sup>^</sup>	
	Men	Women	Men	Women	Men	Women	Men	Women
All cancers	64	72	60	65	58	64	60	65
Female Breast	-	91	-	88	-	87	-	88
Prostate	91	-	88	-	84	-	86	-
Colon	63	68	64	63	63	63	63	63
Rectum	64	76	66	68	61	66	63	66
Colorectal	63	71	64	65	-	-	63	64
Lung	16	22	13	15	9	14	11	15
Uterus	-	73	-	80	-	84	-	82
Cervix	-	84	-	73	-	70	-	72
Ovary	-	44	-	42	-	41	-	41
NHL	63	61	60	61	67	64	64	65
Melanoma	88	97	88	93	88	93	90	94
Stomach	34	27	29	31	27	27	25	25
Head & Neck	49	65	60	61	-	-	-	-
Kidney	73	61	65	61	68	69	68	68
Oesophagus	22	27	17	24	15	22	NA	NA
Pancreas	9	13	6	8	6	4	5	6
Testis	99	-	96	-	99	-	97	-
Thyroid	99	97	89	95	85	94	88	96
Bladder	50	47	63	52	54	45	62	54
Brain	19	43	19	21	22	25	19	21
Liver	12	19	15	16	11	9	NA	NA
Mesothelioma	15	-	5	6	4	11	NA	NA
Leukaemia	44	57	46	45	-	-	50	50
Unknown site	17	12	16	14	14	7	13	9

<sup>^</sup>Relative survival was estimated using Period approach.

<sup>#</sup>Relative survival was estimated using Cohort approach.

Source: AUS 2002-2006 data from AIHW's Cancer survival and prevalence in Australia: cancers diagnosed from 1982 to 2004; NSW 1999-2003 data from Cancer in NSW: Incidence and Mortality Report 2004; VIC 2000-2004 data from the report of Cancer Survival Victoria 2007

#### Comments:

ACT's survival estimates are more suitable for comparison with Victorian's estimates because both reports used period approach for the analysis of a similar time period.

Survival estimates from New South Wales only served as a reference point to ACT as the ACT is surrounded by NSW geographically. As New South Wales used the cohort approach, it would be expected that their estimates were not up-to-date.

National level survival estimates served as a reference point. AIHW used the period approach to assess a slightly different period and was more up-to-date than the ACT. Their window period was 2002-2006. It included persons diagnosed on or since 2002-2004 or persons diagnosed before 2002 and who were still alive at the beginning of 2002; with follow up to the end of 2006.

## Appendix G: Comparison of cancer survival in the ACT using period and hybrid approaches

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### 5-year survival, per cent

Cancer site	Period 2000-2004		Hybrid 2001-2005	
	Men	Women	Men	Women
<b>All cancers</b>	<b>64</b>	<b>72</b>	<b>66</b>	<b>73</b>
Female Breast	-	91	-	93
Prostate	91	-	93	-
Colon	63	68	64	66
Rectum	64	76	65	78
Colorectal	63	71	65	70
Lung	16	22	17	26
Uterus	-	73	-	74
Cervix	-	84	-	87
Ovary	-	44	-	42
NHL	63	61	66	62
Melanoma	88	97	88	97
Stomach	34	27	37	28
Head & Neck	49	65	49	71
Kidney	73	61	72	64
Oesophagus	22	27	27	23
Pancreas	9	13	13	12
Testis	99	-	98	-
Thyroid	99	97	99	96
Bladder	50	47	57	50
Brain	19	43	21	44
Liver	12	19	10	31
Mesothelioma	15	-	17	-
Leukaemia	44	57	46	55
Unknown site	17	12	17	12

#### Comments:

Although the period approach is regarded as an innovative method in Australia, it has been used for almost a decade in Europe. To compare data between jurisdictions, the period approach was chosen. However, the most cutting edge approach internationally to estimate up-to-date relative survival is the hybrid approach (modified period method).

## Appendix H: Demography of the ACT

### Geographic description

The ACT was established as the seat of national Government in 1911 and has been a self-governing territory of Australia since 1989. It has an area of about 2500km<sup>2</sup> and is located between latitudes 35 and 36 degrees South, about 150 km from the east coast of Australia (Figure 2). It is bordered on all sides by the state of New South Wales. Almost all the inhabitants of the ACT live in metropolitan Canberra, the National Capital.

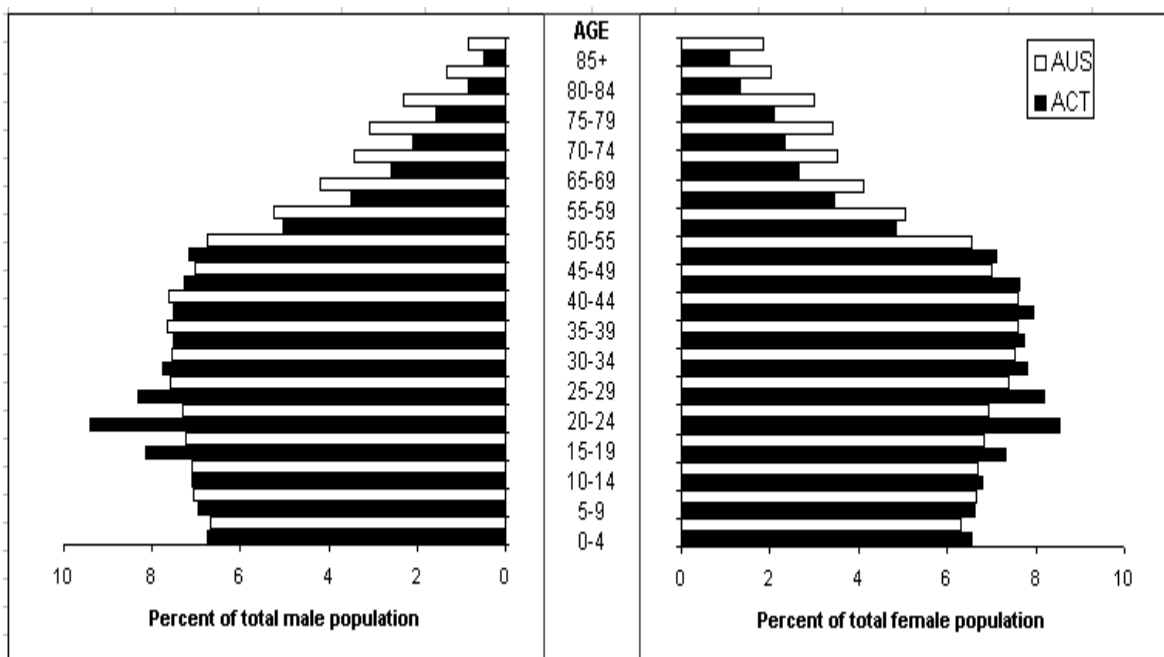
### Population growth

In 1998 the population of the ACT was 310,000 and by 2004 it had grown to 324,000 (1.6 per cent of the Australian population).[5] The rate of population growth in the ACT due to natural increase and migration is 0.8 per cent per year, compared to 1.2 per cent nationally.[6] The lower growth rate in the ACT is mainly due to the continuing net losses from interstate migration. The annual average of net losses from interstate migration for ACT was about 880 per year during 1998-2004.[7]

### Age distribution

The age structure of the ACT population is much younger than that of the rest of Australia (Figure 1). Because of the young population and low fertility rate in the ACT, the population is ageing at a more rapid rate than the national population rate. In 1998, 7.5 per cent of the ACT population were aged 65 years and over, compared to the Australian figure of 12.2 per cent of the population. However, by 2004, the proportion of the population aged 65 and over was 8.5 per cent in the ACT and 12 per cent in Australia.[6,7]

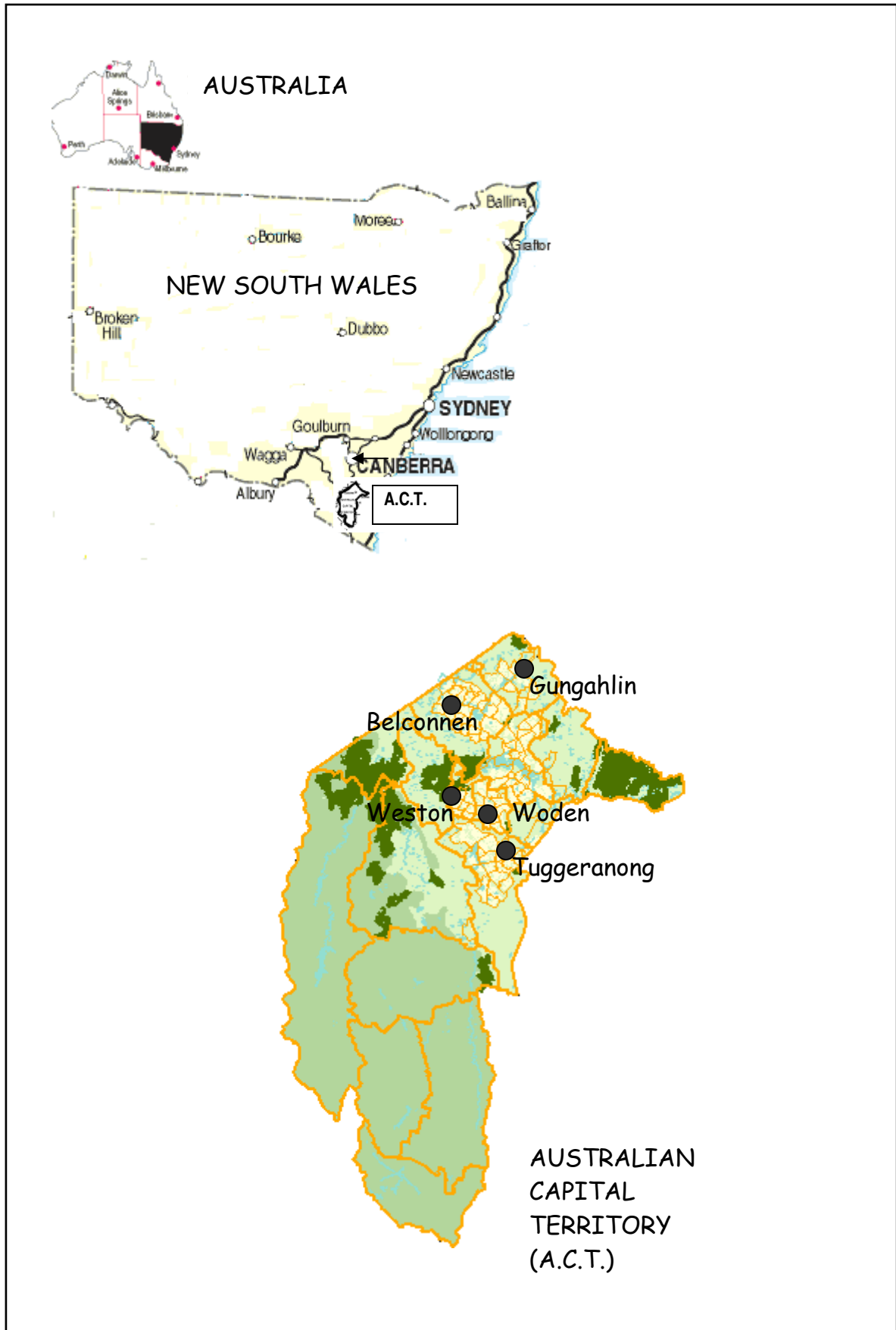
**Figure 1. Age structure of the populations of the ACT & Australia, 2001.**



[5] ABS. Population by age and sex, Australia, Jun 2004. ABS Catalogue No. 3235.0.55.001. Canberra: ABS; 2004.

[6] ABS. Estimated resident population by sex and age, Australian Territory Capital, Jun 2004. ABS Catalogue No. 3235.8.55.001. Canberra: ABS; 2004.

[7] ABS. Migration Australia 2004-2005. ABS Catalogue No. 3412.0. Canberra: ABS; 2005.



MAP 1. Location of the Australian Capital Territory

### **Ethnicity, education and employment**

About 73 per cent of the ACT population are Australia-born.[7] Of the migrants, about one third have come from the United Kingdom and Ireland, one quarter from other countries in Europe and another one quarter from other countries in Asia. On average, ACT residents have had more formal education than the average for Australia – in 2004, 21 per cent of the ACT population (15-64 years) did not complete Year 12, compared to 32 per cent for the rest of Australia.[8] Further, the ACT has the highest proportion (30.3 per cent) of its population (15-64 years) who have a bachelor degree or above compared to the rest of Australia.[8] There is little heavy industry in the ACT, and about 44 per cent of the labour force are employed in the public sector. Unemployment in the ACT has been lower than the average for Australia over the period 1998-2004, and the average weekly earnings for all employees has been slightly higher than for the rest of Australia.

The ACT rates highly on most socio-economic indices (Table 1). The ratings of the ACT on four socio-economic indices produced by the Australian Bureau of Statistics from census data 2001[9] are shown below.

**Table 1. Comparison of average socio-economic indices between ACT, NSW and Australia, 2001.**

<b>Socio-economic index</b>	<b>ACT</b>	<b>NSW</b>	<b>Australia</b>
<b>Relative socio-economic advantage/disadvantage</b>	1120	1011	1000
<b>Economic resources</b>	1107	1021	1000
<b>Education and Occupation</b>	1116	1009	1000
<b>Relative socio-economic disadvantage</b>	1076	1000	1000

\*Higher score of socio-economic index corresponds to higher socio-economic status.

### **Risk factors for cancer**

In terms of risk factors for cancer, a national survey [10] showed that the prevalence of selected known risk factors for cancer in the ACT compare favourably with the national prevalence in 2004:

- The proportion of current smokers in the ACT (18%) is lower than the national average (23%);
- The proportion of moderate to high intensity physical activity was higher in the ACT (36%) compared to the national average (30%);
- Compared with the national average, a slightly higher proportion of ACT women had had a Pap smear or breast mammogram in 2003 [11,12]; but
- The proportion of 'risky' to 'high risk' level of alcohol consumption in the ACT (14%) is slightly higher than the national average (13.5%).

During the period examined in this report, there were four hospitals in Canberra, two public and two private. The Canberra Hospital is the principal cancer care provider in the ACT and surrounding NSW region and offers expertise in surgery, medical and radiation oncology and haematology services.

[8] ABS. Australian social trends- education and training, 2005. ABS Catalogue No. 3412.0. Canberra: ABS; 2005.

[9] ABS. Information paper: Census of population and housing. Socio-economic indexes for areas, Australia, 2001. ABS Catalogue No. 2039.0. Canberra: ABS; 2001.

[10] ABS. National Health Survey, 2004-2005. ABS Catalogue No. 4364.0. Canberra: ABS; 2005.

[11] AIHW. Cervical screening in Australia, 2002-2003. Cancer series no. 31. AIHW Catalogue No. CAN26. Canberra: AIHW; 2005.

[12] AIHW. BreastScreen Australia monitoring report 2002-2003. Canberra: AIHW; 2006.

## Appendix I: The ACT Cancer Registry

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The ACT Cancer Registry was established in July 1994, when cancer reporting became mandatory in the ACT, under the *Public Health Act*. Since then, it has been a legal requirement that all public and private hospitals, general practitioners, pathology laboratories and nursing homes notify newly diagnosed cancers in the ACT. Data are supplemented by information from death certificates.

The aims of the ACT Cancer Registry are:

- to monitor the number of new cases of cancer in the ACT population;
- to describe the distribution and trends of cancer in the ACT population;
- to assist with studies to determine the causes of cancer, and the level of risk from environmental hazards in the ACT;
- to assist in planning services and health policy development within the ACT, (eg. screening programs and facilities for the treatment of cancer); and
- to provide information for use in the control and prevention of cancer.

Data collected include identifying and demographic information, brief medical details describing the cancer and a record of at least one episode of care from each notifier.

Currently, the latest data available in the ACT Cancer Registry are for 2004. More recent data are not available because notification and data processing takes an average of 18 months. A considerable amount of time and effort is spent in matching, classifying and checking cases to ensure completeness.

The ACT Cancer Registry produces biennial reports on cancer incidence and mortality. The reports cover notifications over a five year period. This is the first report on cancer survival statistics in the ACT.

The ACT Cancer Registry is a full member of the Australasian Association of Cancer Registries (AACR) and the International Association of Cancer Registries (IARC).

### Classification and coding

Primary site of cancer (topography) and cell type (morphology) are coded according to the International Classification of Diseases for Oncology, third edition (ICD-O-3). This report presents data for invasive cancers only (behaviour=3, site C000-C809). In situ cancers and second primary cancers with the same three-digit topography code and related morphologies are not included in this report. Coding practices in the ACT Cancer Registry are the same as for the NSW Cancer Registry.

### Data control and quality assurance

The quality of information provided by the Registry depends on the quality of data received. The indices used to measure the quality for the 1998-2002 data are provided in Appendix C. [13]

- monitor of notifications rates for each notifier;
- extensive data entry validation and checks of consistency with other data items;
- routine periodic checks of the accuracy and reliability of coding and data entry;
- reconciliation of information from multiple sources;
- ongoing computerised scrutiny for multiple registrations of the same person;
- correction of inaccuracies found when data are used;
- maintenance of consistency of coding through regular internal coding meetings and resolution of difficulties in collaboration with medical experts and other cancer registries; and
- International Association of Cancer Registries check program used quarterly.

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[13] Tracey EA, Roder D, Bishop J, Chen S, Chen W. Cancer in New South Wales: Incidence and Mortality 2003. Sydney: Cancer Institute NSW, 2005.