

CONTENTS

List of tables.....	vi
List of figures.....	vii

PART 1: Incidence and Mortality 1980 - 1999

1	Introduction	
	Introduction to the report.....	1
	Incidence rates for frequently diagnosed cancers for males and females by decades – 1980s and 1990s.....	3
	Mortality rates for frequent causes of cancer deaths for males and females by decades – 1980s and 1990s.....	5
	Incidence rates for frequently diagnosed cancers by age group and sex 1980 – 1999.....	11
	Mortality rates for frequent causes of cancer deaths by age group and sex 1980 – 1999.....	13
	Cancer incidence and mortality in Australian States and Territories 1983-1999.....	17
2	Incidence and mortality trends for selected cancers	
	All cancers.....	21
	Bladder cancer.....	24
	Breast cancer.....	26
	Cervical cancer.....	28
	Colorectal cancer.....	30
	Kidney cancer.....	32
	Leukaemias.....	34
	Lung cancer.....	36
	Melanoma of the skin.....	39
	Non-Hodgkin's lymphoma.....	41
	Ovarian cancer.....	43
	Pancreatic cancer.....	45
	Prostate cancer.....	47
	Stomach cancer.....	49
	Thyroid cancer.....	51
	Smoking-related cancers.....	55
	Alcohol-related cancers.....	58
3	Summary tables of cancer incidence and mortality	
	Incidence and mortality, counts and age standardised rates per 100,000 by cancers and sex, Tasmania 1980-1999.....	63
	Incidence and mortality summary tables.....	79
	Summary statistics for selected cancers.....	81

PART 2: Geographical Analysis

4	Executive Summary	101
5	Cancer incidence by Local Government Area (LGA) 1996 – 1999	
	Introduction	103
	Methods	103
	Cancer incidence by Local Government Area.....	103
	Summary.....	105

6	Cancer incidence and mortality by remoteness 1993-1999	
	Introduction.....	107
	Australian Standard Geographical Classification (ASGC) Remote Areas (ARIA + index)	107
	Methods	107
	Cancer incidence and mortality by ASGC Remoteness Area categories	107
	Incidence.....	108
	Mortality	110
	Summary.....	110
7	Cancer incidence by socio-economic status 1996-1999	
	Introduction	113
	Methods	113
	Cancer incidence by socio-economic status	113
	Summary.....	118

APPENDIXES

Appendix A: About the Tasmanian Cancer Registry.....	125
Appendix B: Cancer codes (ICD-9) and combinations.....	127
Appendix C: Methods Part 1: Incidence and Mortality 1980 – 1999	129
Appendix D: Methods Part 2: Geographical Analysis.....	135
Appendix E: Population data.....	141
Appendix F: Geography and demography of Tasmania.....	143
Appendix G: Quality Indicators.....	147
Appendix H: Glossary	149
Appendix I: References	153

LIST OF TABLES

Table 1: Reasons for featuring the selected cancers in this report.....	2
Table 2: Incidence rates for the ten most frequently diagnosed cancers for males in the 1980s and 1990s.....	3
Table 3: Incidence rates for the ten most frequently diagnosed cancers for females in the 1980s and 1990s.....	4
Table 4: Mortality rates for frequent causes of cancer deaths for males in the 1980s and 1990s.....	5
Table 5: Mortality rates for frequent causes of cancer deaths for females in the 1980s and 1990s.....	6
Table 6: Incidence rates of the five most frequently diagnosed cancers in children and young adults aged 0-19 years.....	11
Table 7: Incidence rates of the five most frequently diagnosed cancers in adults aged 20-44 years.....	11
Table 8: Incidence rates of the five most frequently diagnosed cancers in adults aged 45-64 years.....	12
Table 9: Incidence rates of the five most frequently diagnosed cancers in adults aged 65 years and over.....	12
Table 10: Mortality rates for the five most frequent causes of cancer deaths in children and young adults aged 0-19 years.....	13
Table 11: Mortality rates for the five most frequent causes of cancer deaths in adults aged 20-44 years.....	13
Table 12: Mortality rates for the five most frequent causes of cancer deaths in adults aged 45-64 years.....	14
Table 13: Mortality rates for the five most frequent causes of cancer deaths in adults aged 60 years and over.....	14
Table 14: Smoking and alcohol-related cancers: Description of aetiological fractions.....	54
Table 15: Incidence and mortality, counts and age standardised rates per 100,000 by cancers and sex, Tasmania 1980-1999.....	63
Table 16: Incidence summary table.....	79
Table 17: Mortality summary table.....	80
Table 18: All cancers, summary statistics.....	81
Table 19: Bladder cancer, summary statistics.....	82

Table 20:	Breast cancer, summary statistics.....	83
Table 21:	Cervical cancer, summary statistics.....	84
Table 22:	Colorectal cancer, summary statistics.....	85
Table 23:	Kidney cancer, summary statistics.....	86
Table 24:	Leukaemias, summary statistics.....	87
Table 25:	Lung cancer, summary statistics.....	88
Table 26:	Melanoma of the skin, summary statistics.....	89
Table 27:	Non-Hodgkin's lymphoma, summary statistics.....	90
Table 28:	Ovarian cancer, summary statistics.....	91
Table 29:	Pancreatic cancer, summary statistics.....	92
Table 30:	Prostate cancer, summary statistics.....	93
Table 31:	Stomach cancer, summary statistics.....	94
Table 32:	Thyroid cancer, summary statistics.....	95
Table 33:	Smoking-related cancers, summary statistics.....	96
Table 34:	Alcohol-related cancers, summary statistics.....	97
Table 35:	Cancer incidence by local government area 1996-1999	104
Table 36:	All cancer age standardised incidence rates by ASGC remoteness area categories 1993-1999	111
Table 37:	Female breast cancer age standardised incidence rates by ASGC remoteness area categories 1993-1999	111
Table 38:	Prostate cancer age standardised incidence rates by ASGC remoteness area categories 1993-1999	112
Table 39:	All cancer age standardised mortality rates by ASGC remoteness area categories 1993-1999	112
Table 40:	Differences in all cancer incidence by socio-economic status 1996-1999.....	119
Table 41:	Differences in lung cancer incidence by socio-economic status 1996-1999	119
Table 42:	Differences in colorectal cancer incidence by socio-economic status 1996-1999.....	120
Table 43:	Differences in female breast cancer incidence by socio-economic status 1996-1999.....	120
Table 44:	Differences in melanoma incidence by socio-economic status 1996-1999	120
Table 45:	Differences in bladder cancer incidence by socio-economic status 1996-1999.....	121
Table 46:	Differences in prostate cancer incidence by socio-economic status 1996-1999.....	121
Table 47:	Differences in smoking-related cancer incidence by socio-economic status 1996-1999.....	121
Table 48:	Differences in alcohol-related cancer incidence by socio-economic status 1996-1999.....	122
Table 49:	Distribution of Tasmanian population, cancer cases and cancer deaths by ASGC Remote Areas categories.....	139
Table 50:	Distribution of Tasmanian population, and cancer cases by IRSD categories.....	140
Table 51:	Indicators of data quality.....	148

LIST OF FIGURES

Figure 1:	Incidence rates for frequently diagnosed cancers for males by decades – 1980s and 1990s.....	7
Figure 2:	Incidence rates for frequently diagnosed cancers for females by decades – 1980s and 1990s.....	8
Figure 3:	Mortality rates for frequent causes of cancer deaths for males by decades – 1980s and 1990s.....	9
Figure 4:	Mortality rates for frequent causes of cancer deaths for females by decades – 1980s and 1990s.....	10
Figure 5:	Most frequently diagnosed cancers by age group and sex 1980-1999.....	15
Figure 6:	Most frequent causes of cancer deaths by age group and sex 1980-1999.....	16
Figure 7:	All cancers (excluding NMSC) incidence rates for Australian States and Territories 1983-1999.....	18
Figure 8:	All cancers (excluding NMSC) mortality rates for Australian States and Territories 1983-1999.....	18
Figure 9:	All cancers, age standardised incidence rates.....	21
Figure 10:	All cancers, age standardised mortality rates.....	22

Figure 11: All cancers, age specific rates.....	23
Figure 12: All cancers, age distribution.....	23
Figure 13: Bladder cancer, age standardised incidence rates.....	24
Figure 14: Bladder cancer, age standardised mortality rates.....	24
Figure 15: Bladder cancer, age specific rates.....	25
Figure 16: Bladder cancer, age distribution.....	25
Figure 17: Breast cancer, age standardised incidence rates.....	26
Figure 18: Breast cancer, age standardised mortality rates.....	26
Figure 19: Breast cancer, age specific rates.....	27
Figure 20: Breast cancer, age distribution.....	27
Figure 21: Cervical cancer, age standardised incidence rates.....	28
Figure 22: Cervical cancer, age standardised mortality rates.....	28
Figure 23: Cervical cancer, age specific rates.....	29
Figure 24: Cervical cancer, age distribution.....	29
Figure 25: Colorectal cancer, age standardised incidence rates.....	30
Figure 26: Colorectal cancer, age standardised mortality rates.....	30
Figure 27: Colorectal cancer, age specific rates.....	31
Figure 28: Colorectal cancer, age distribution.....	31
Figure 29: Kidney cancer, age standardised incidence rates.....	32
Figure 30: Kidney cancer, age standardised mortality rates.....	32
Figure 31: Kidney cancer, age specific rates.....	33
Figure 32: Kidney cancer, age distribution.....	33
Figure 33: Leukaemias, age standardised incidence rates.....	34
Figure 34: Leukaemias, age standardised mortality rates.....	34
Figure 35: Leukaemias, age specific rates.....	35
Figure 36: Leukaemias, age distribution.....	35
Figure 37: Lung cancer, age standardised incidence rates.....	36
Figure 38: Lung cancer, age standardised mortality rates.....	37
Figure 39: Lung cancer, age specific rates.....	38
Figure 40: Lung cancer, age distribution.....	38
Figure 41: Melanoma of the skin, age standardised incidence rates.....	39
Figure 42: Melanoma of the skin, age standardised mortality rates.....	39
Figure 43: Melanoma of the skin, age specific rates.....	40
Figure 44: Melanoma of the skin, age distribution.....	40
Figure 45: Non-Hodgkin's lymphoma, age standardised incidence rates.....	41
Figure 46: Non-Hodgkin's lymphoma, age standardised mortality rates.....	41
Figure 47: Non-Hodgkin's lymphoma, age specific rates.....	42
Figure 48: Non-Hodgkin's lymphoma, age distribution.....	42
Figure 49: Ovarian cancer, age standardised incidence rates.....	43
Figure 50: Ovarian cancer, age standardised mortality rates.....	43
Figure 51: Ovarian cancer, age specific rates.....	44
Figure 52: Ovarian cancer, age distribution.....	44
Figure 53: Pancreatic cancer, age standardised incidence rates.....	45
Figure 54: Pancreatic cancer, age standardised mortality rates.....	45
Figure 55: Pancreatic cancer, age specific rates.....	46
Figure 56: Pancreatic cancer, age distribution.....	46
Figure 57: Prostate cancer, age standardised incidence rates.....	47
Figure 58: Prostate cancer, age standardised mortality rates.....	47
Figure 59: Prostate cancer, age specific rates.....	48

Figure 60: Prostate cancer, age distribution.....	48
Figure 61: Stomach cancer, age standardised incidence rates.....	49
Figure 62: Stomach cancer, age standardised mortality rates.....	49
Figure 63: Stomach cancer, age specific rates.....	50
Figure 64: Stomach cancer, age distribution.....	50
Figure 65: Thyroid cancer, age standardised incidence rates.....	51
Figure 66: Thyroid cancer, age standardised mortality rates.....	52
Figure 67: Thyroid cancer, age specific rates.....	53
Figure 68: Thyroid cancer, age distribution.....	53
Figure 69: Smoking-related cancers, age standardised incidence rates.....	55
Figure 70: Smoking-related cancers, age standardised mortality rates.....	56
Figure 71: Smoking-related cancers, age specific rates.....	57
Figure 72: Smoking-related cancers, age distribution.....	57
Figure 73: Alcohol-related cancers, age standardised incidence rates.....	58
Figure 74: Alcohol-related cancers, age standardised mortality rates.....	58
Figure 75: Alcohol-related cancers, age specific rates.....	59
Figure 76: Alcohol-related cancers, age distribution.....	59
Figure 77: Cancer incidence by Local Government Area (LGA) 1996-1999.....	104
Figure 78: Age standardised incidence rates for all cancers by ASGC Remoteness Areas categories 1993-1999	108
Figure 79: Age standardised incidence rates for female breast cancer by ASGC Remoteness Areas categories 1993-1999	109
Figure 80: Age standardised incidence rates for prostate cancer by ASGC Remoteness Areas categories 1993-1999	109
Figure 81: Age standardised mortality rates for all cancers by ASGC Remoteness Areas categories for males and females 1993-1999	110
Figure 82: Differences in all cancer incidence by socio-economic status 1996-1999.....	114
Figure 83: Differences in bladder cancer incidence by socio-economic status 1996-1999.....	114
Figure 84: Differences in female breast cancer incidence by socio-economic status 1996-1999.....	115
Figure 85: Differences in colorectal cancer incidence by socio-economic status 1996-1999	115
Figure 86: Differences in lung cancer incidence by socio-economic status 1996-1999	116
Figure 87: Differences in melanoma incidence by socio-economic status 1996-1999.....	116
Figure 88: Differences in prostate cancer incidence by socio-economic status 1996-1999	117
Figure 89: Differences in alcohol-related cancer incidence by socio-economic status 1996-1999	117
Figure 90: Differences in smoking-related cancer incidence by socio-economic status 1996-1999	118