

Appendix A Partial aetiological fractions for alcohol using low consumption as the reference level

English et al. (1995) calculated aetiological fractions for hazardous and harmful alcohol consumption (as defined by the National Health and Medical Research Council) relative to low alcohol consumption. Their rationale was to reflect more accurately the idea that unsafe drinking—as opposed to low alcohol consumption, which may be protective—is the cause for concern. The alcohol fractions presented in the body of our report reflect the earlier approach of Holman et al. (1990) and reflect both the risks and benefits of alcohol at all levels of consumption relative to abstaining from alcohol. This appendix presents revised estimates of the alcohol fractions using the approach taken by English et al.

The data in this appendix represent the extra effect of alcohol consumption for the ‘unsafe’ drinker compared with the ‘responsible’ drinker (English et al. 1995, p. 58), where unsafe and responsible consumption are defined by the NHMRC guidelines for responsible drinking (NHMRC 1992). The data are presented here in recognition of the fact that public health efforts in Australia are generally directed towards the reduction of unsafe alcohol consumption and not alcohol consumption per se. The data may thus be useful in supporting that policy.

A.1 Methods

The partial fraction for unsafe alcohol consumption is calculated in a similar way to the partial fractions used in the body of the report, but with a different reference level. We designated p_0, p_1, p_2 and p_3 as the population prevalence of abstinence, ‘low’, ‘hazardous’ and ‘harmful’ drinking respectively and RR_0, RR_2 and RR_3 as the relative risk associated with abstinence, hazardous and harmful drinking relative to low drinking. By definition, $RR_1 = 1$, so the equation for the partial fraction for unsafe drinking (hazardous and harmful combined) relative to low drinking is

$$F_u = \frac{\sum_{i=2}^3 [p_i (RR_i - 1)]}{\sum_{i=0}^3 [p_i (RR_i - 1)] + 1}$$

It is also possible to formulate an aetiological fraction, F_0 , for the contribution of abstinence to morbidity and mortality. Its formula is

$$F_0 = \frac{[p_0 (RR_0 - 1)]}{\sum_{i=0}^3 [p_i (RR_i - 1)] + 1}$$

This report follows English et al. (1995) and does not calculate F_0 . The main reason is that the results in this appendix are presented to support public policy relating to alcohol: abstinence is not currently an object of public policy. But this does mean that the results presented in

this appendix represent only a partial view of the total effect of alcohol. In particular, they do not take account of the benefits ascribed to moderate alcohol consumption or the risks associated with moderate alcohol consumption and some conditions.

A number of the fractions presented in the body of the report are based on case series using formula (6) in Chapter 2. These case series did not allow a partitioning of risk into that due to moderate alcohol intake and that due to high intake. Hence the data do not support the direct estimation of a fraction for hazardous and harmful levels of drinking. We have followed English et al. in using these fractions directly as the fractions for hazardous and harmful levels of drinking. The assumption implicit in this is that most of the alcohol harm relating to the conditions associated with these fractions arises from hazardous and harmful levels of drinking.

A.2 Results

Table A1 presents the age- and sex-specific partial aetiological fractions for unsafe alcohol consumption relative to low alcohol consumption. Tables A2 to A13 present the deaths, PYLL, hospital separations and patient days attributable to unsafe alcohol consumption relative to low alcohol consumption for the period 1996 to 1998.

English et al. (1995) found inadequate evidence that the marginal exposure between low and hazardous or harmful alcohol intake is either a cause of or protective against ischaemic heart disease. As a result, this condition is omitted from Table A1. English et al. also recommended the exclusion of heart failure from the analysis since its predominant cause is ischaemic heart disease, so this condition has also been omitted from Table A1. The fractions for unspecified liver cirrhosis deaths and separations are derived using the counts of deaths or separations coded to alcoholic liver cirrhosis and to overall liver cirrhosis. As a result, both these fractions vary by year. The values presented in Table A1 are those for 1998 for deaths and those for 1997–98 for hospital separations.

Table A1: Partial aetiological fractions for harmful and hazardous levels of alcohol consumption relative to moderate levels of consumption, by condition, age and sex

A1.1: Males

Condition	Age																	
	0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+
Oropharyngeal cancer				0.24	0.24	0.22	0.21	0.17	0.19	0.19	0.20	0.13	0.22	0.15	0.19	0.19	0.11	0.11
Oesophageal cancer				0.16	0.16	0.15	0.15	0.12	0.13	0.14	0.14	0.10	0.16	0.11	0.13	0.13	0.08	0.08
Liver cancer				0.20	0.20	0.20	0.20	0.17	0.19	0.20	0.19	0.15	0.22	0.16	0.17	0.14	0.12	0.12
Laryngeal cancer				0.24	0.24	0.24	0.24	0.20	0.23	0.24	0.23	0.18	0.26	0.19	0.20	0.18	0.14	0.14
Female breast cancer	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Alcoholic psychosis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcohol dependence	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcohol abuse	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Epilepsy				0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Alcoholic polyneuropathy	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hypertension				0.10	0.10	0.10	0.10	0.08	0.09	0.09	0.09	0.07	0.10	0.07	0.08	0.07	0.05	0.05
Alcoholic cardiomyopathy	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Supraventricular cardiac dysrhythmias				0.09	0.09	0.09	0.09	0.07	0.09	0.09	0.08	0.07	0.10	0.07	0.07	0.06	0.05	0.05
Haemorrhagic stroke				0.12	0.12	0.12	0.13	0.10	0.12	0.13	0.12	0.10	0.14	0.10	0.10	0.08	0.07	0.07
Ischaemic stroke				0.08	0.08	0.08	0.08	0.06	0.07	0.08	0.07	0.06	0.09	0.06	0.06	0.06	0.04	0.04
Oesophageal varices				0.54	0.54	0.53	0.55	0.49	0.54	0.56	0.53	0.48	0.57	0.48	0.48	0.42	0.39	0.39
Gastro-oesophageal haemorrhage	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Alcoholic gastritis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcoholic liver cirrhosis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Unspecified liver cirrhosis (deaths 1998) ^(a)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unspecified liver cirrhosis (separations 1997–98) ^(a)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(continued)

Table A1 (continued): Partial aetiological fractions for harmful and hazardous levels of alcohol consumption relative to moderate levels of consumption, by condition, age and sex

A1.1 (continued): Males

Condition	Age																	
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
Cholelithiasis				-0.04	-0.04	-0.04	-0.04	-0.03	-0.04	-0.04	-0.03	-0.03	-0.04	-0.03	-0.03	-0.03	-0.02	-0.02
Acute pancreatitis	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Chronic pancreatitis	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Low birthweight																		
Psoriasis				0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.04	0.02	0.03	0.03	0.02	0.02
Ethanol toxicity ^(b)				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Methanol toxicity ^(b)				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Road injury																		
Driver etc. death ^(b)	0.33	0.33	0.33	0.30	0.39	0.39	0.40	0.40	0.40	0.40	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Pedestrian death ^(b)				0.75	0.61	0.61	0.53	0.53	0.53	0.53	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Driver etc. hospitalisation ^(c)	0.25	0.25	0.25	0.20	0.33	0.33	0.24	0.24	0.24	0.24	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Pedestrian hospitalisation ^(c)				0.42	0.52	0.52	0.49	0.49	0.49	0.49	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Alcoholic beverage poisoning ^(c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Other ethanol and methanol poisoning ^(c)				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fall injuries				0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.12	0.12	0.12	0.12	0.12
Fire injuries				0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Drowning			0.03	0.32	0.32	0.32	0.50	0.50	0.50	0.42	0.42	0.42	0.31	0.31	0.31	0.31	0.31	0.31
Aspiration				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Occupational/machine injuries				0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Suicide				0.12	0.12	0.12	0.12	0.10	0.12	0.13	0.11	0.09	0.13	0.10	0.10	0.08	0.07	0.07
Assault	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Child abuse	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16

(continued)

Table A1 (continued): Partial aetiological fractions for harmful and hazardous levels of alcohol consumption relative to moderate levels of consumption, by condition, age and sex

A1.2: Females

Condition	Age																	
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
Oropharyngeal cancer				0.12	0.12	0.09	0.09	0.10	0.09	0.11	0.14	0.10	0.07	0.08	0.06	0.04	0.06	0.06
Oesophageal cancer				0.10	0.10	0.08	0.07	0.08	0.07	0.08	0.10	0.08	0.06	0.07	0.05	0.03	0.04	0.04
Liver cancer				0.18	0.18	0.14	0.14	0.16	0.14	0.15	0.17	0.16	0.15	0.17	0.11	0.07	0.08	0.08
Laryngeal cancer				0.21	0.21	0.17	0.16	0.18	0.16	0.17	0.20	0.18	0.17	0.19	0.13	0.07	0.09	0.09
Female breast cancer				0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.03	0.04	0.03	0.01	0.02	0.02
Alcoholic psychosis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcohol dependence	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcohol abuse	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Epilepsy				0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Alcoholic polyneuropathy	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Hypertension				0.08	0.08	0.06	0.06	0.07	0.06	0.07	0.08	0.07	0.06	0.07	0.05	0.03	0.03	0.03
Alcoholic cardiomyopathy	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Supraventricular cardiac dysrhythmias				0.09	0.09	0.07	0.06	0.07	0.06	0.07	0.08	0.07	0.07	0.08	0.05	0.03	0.03	0.03
Haemorrhagic stroke				0.20	0.20	0.16	0.15	0.18	0.16	0.23	0.27	0.20	0.10	0.13	0.10	0.08	0.13	0.13
Ischaemic stroke				0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.02	0.01	0.02	0.02
Oesophageal varices				0.54	0.54	0.47	0.46	0.50	0.46	0.47	0.53	0.51	0.49	0.53	0.41	0.27	0.30	0.30
Gastro-oesophageal	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Alcoholic gastritis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Alcoholic liver cirrhosis	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Unspecified liver cirrhosis (deaths 1998) ^(a)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unspecified liver cirrhosis (separations 1997-98) ^(a)					0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

(continued)

Table A1 (continued): Partial aetiological fractions for harmful and hazardous levels of alcohol consumption relative to moderate levels of consumption, by condition, age and sex

A1.2 (continued): Females

Condition	Age																	
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+
Cholelithiasis				-0.03	-0.03	-0.02	-0.02	-0.03	-0.02	-0.03	-0.03	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01	-0.01
Acute pancreatitis	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Chronic pancreatitis	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Low birthweight																		
Psoriasis				0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.01
Ethanol toxicity ^(b)				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Methanol toxicity ^(b)				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Road injury																		
Driver etc. death ^(b)	0.11	0.11	0.11	0.08	0.16	0.16	0.18	0.18	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pedestrian death ^(b)				0.50	0.22	0.22	0.42	0.42	0.42	0.42	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Driver etc. hospitalisation ^(c)	0.11	0.11	0.11	0.09	0.15	0.15	0.12	0.12	0.12	0.12	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Pedestrian hospitalisation ^(c)				0.23	0.24	0.24	0.24	0.24	0.24	0.24	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Alcoholic beverage poisoning ^(c)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Other ethanol and methanol				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Fall injuries				0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.04	0.04	0.04	0.04	0.04
Fire injuries				0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Drowning			0.03	0.32	0.32	0.32	0.50	0.50	0.50	0.42	0.42	0.42	0.31	0.31	0.31	0.31	0.31	0.31
Aspiration				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Occupational/machine injuries				0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Suicide				0.12	0.12	0.09	0.09	0.10	0.08	0.09	0.11	0.10	0.09	0.11	0.07	0.04	0.05	0.05
Assault	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Child abuse	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16

n.a. Not available

(a) This fraction depends on the counts coded to alcoholic liver cirrhosis and to overall liver cirrhosis. Hence it is different for separations and deaths and varies by year. The values presented here are those for 1998 for deaths and those for 1997-98 for hospital separations.

(b) Fractions for this condition apply only to deaths or PYLL.

(c) Fractions for this condition apply only to hospital separations or patient days.

Table A2: Deaths attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: males, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	2	98	151	250
Alcoholism and alcoholic liver cirrhosis	0	32	481	240	753
Road injuries	20	266	116	23	425
Other	9	209	372	455	1,046
Total 1996	30	509	1,067	869	2,474
1997					
Cancer	0	2	103	149	254
Alcoholism and alcoholic liver cirrhosis	0	27	512	255	794
Road injuries	16	254	100	21	391
Other	7	220	358	444	1,029
Total 1997	23	503	1,072	870	2,468
1998					
Cancer	0	2	100	140	241
Alcoholism and alcoholic liver cirrhosis	0	26	451	226	703
Road injuries	12	245	111	19	387
Other	4	213	355	431	1,004
Total 1998	16	485	1,017	816	2,335

Note: Columns may not add exactly to totals due to rounding.

Table A3: Deaths attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: females, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	1	59	70	130
Alcoholism and alcoholic liver cirrhosis	0	8	138	64	210
Road injuries	4	30	20	2	56
Other	9	46	123	350	528
Total 1996	13	85	339	485	923
1997					
Cancer	0	2	58	69	130
Alcoholism and alcoholic liver cirrhosis	0	13	142	57	213
Road injuries	3	37	21	3	63
Other	5	55	130	347	537
Total 1997	8	107	351	477	943
1998					
Cancer	0	2	58	66	126
Alcoholism and alcoholic liver cirrhosis	0	18	132	74	224
Road injuries	3	28	20	3	53
Other	3	53	124	353	533
Total 1998	6	101	334	495	936

Note: Columns may not add exactly to totals due to rounding.

Table A4: Deaths attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: persons, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	3	157	221	380
Alcoholism and alcoholic liver cirrhosis	0	40	619	304	963
Road injuries	24	296	136	25	481
Other	18	255	495	804	1,573
Total 1996	42	594	1,407	1,355	3,398
1997					
Cancer	0	4	161	218	384
Alcoholism and alcoholic liver cirrhosis	0	40	654	313	1,007
Road injuries	19	291	121	24	454
Other	12	275	487	792	1,566
Total 1997	31	610	1,423	1,346	3,411
1998					
Cancer	0	4	158	205	367
Alcoholism and alcoholic liver cirrhosis	0	44	583	300	927
Road injuries	15	273	130	22	440
Other	8	266	479	784	1,537
Total 1998	23	586	1,351	1,311	3,271

Note: Columns may not add exactly to totals due to rounding.

Table A5: PYLL attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: males, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	43	1,649	1,382	3,074
Alcoholism and alcoholic liver cirrhosis	0	837	8,952	2,314	12,103
Road injuries	595	7,218	2,557	186	10,556
Other	286	5,580	7,288	3,494	16,647
Total 1996	881	13,678	20,446	7,376	42,381
1997					
Cancer	0	46	1,748	1,366	3,160
Alcoholism and alcoholic liver cirrhosis	0	714	9,594	2,532	12,840
Road injuries	472	6,891	2,197	177	9,737
Other	202	5,887	6,988	3,428	16,505
Total 1997	674	13,538	20,527	7,503	42,242
1998					
Cancer	0	45	1,717	1,253	3,014
Alcoholism and alcoholic liver cirrhosis	0	675	8,418	2,225	11,317
Road injuries	356	6,637	2,418	160	9,570
Other	125	5,683	6,920	3,247	15,975
Total 1998	481	13,039	19,472	6,885	39,877

Note: Columns may not add exactly to totals due to rounding.

Table A6: PYLL attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: females, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	36	1,188	717	1,940
Alcoholism and alcoholic liver cirrhosis	0	217	2,849	719	3,785
Road injuries	114	820	475	20	1,428
Other	277	1,283	2,583	2,680	6,822
Total 1996	390	2,356	7,094	4,135	13,976
1997					
Cancer	0	63	1,175	708	1,946
Alcoholism and alcoholic liver cirrhosis	0	348	3,019	682	4,049
Road injuries	98	1,024	484	25	1,631
Other	155	1,517	2,760	2,628	7,061
Total 1997	253	2,952	7,438	4,043	14,687
1998					
Cancer	0	61	1,165	644	1,870
Alcoholism and alcoholic liver cirrhosis	0	486	2,779	831	4,095
Road injuries	91	782	473	24	1,369
Other	105	1,464	2,611	2,697	6,876
Total 1998	196	2,792	7,027	4,195	14,210

Note: Columns may not add exactly to totals due to rounding.

Table A7: PYLL attributable to hazardous and harmful alcohol consumption relative to low consumption, by cause of death, age and year: persons, 1996 to 1998

Year/cause of death	Age				All ages
	0-14	15-34	35-64	65 and over	
1996					
Cancer	0	79	2,837	2,099	5,015
Alcoholism and alcoholic liver cirrhosis	0	1,054	11,801	3,032	15,888
Road injuries	709	8,038	3,032	206	11,984
Other	563	6,863	9,870	6,174	23,469
Total 1996	1,271	16,034	27,540	11,511	56,357
1997					
Cancer	0	109	2,923	2,075	5,107
Alcoholism and alcoholic liver cirrhosis	0	1,062	12,613	3,213	16,889
Road injuries	570	7,915	2,681	202	11,368
Other	357	7,404	9,748	6,057	23,566
Total 1997	927	16,490	27,965	11,547	56,929
1998					
Cancer	0	106	2,882	1,897	4,884
Alcoholism and alcoholic liver cirrhosis	0	1,161	11,196	3,055	15,413
Road injuries	447	7,418	2,890	184	10,940
Other	229	7,147	9,531	5,944	22,851
Total 1998	676	15,831	26,499	11,080	54,087

Note: Columns may not add exactly to totals due to rounding.

Table A8: Separations attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: males, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	14	539	536	1,089
Alcoholism and alcoholic liver cirrhosis	127	4,167	11,158	2,226	17,678
Road injuries	336	3,431	1,173	245	5,184
Other	253	11,184	9,840	4,485	25,762
Total 1995–96	716	18,796	22,709	7,492	49,713
1996–97					
Cancer	0	15	573	535	1,122
Alcoholism and alcoholic liver cirrhosis	129	3,930	11,232	2,324	17,615
Road injuries	318	3,273	1,224	255	5,071
Other	253	11,014	9,965	4,736	25,968
Total 1996–97	700	18,232	22,994	7,850	49,776
1997–98					
Cancer	0	10	607	579	1,196
Alcoholism and alcoholic liver cirrhosis	143	3,783	11,564	2,162	17,652
Road injuries	329	3,083	1,145	233	4,790
Other	229	10,765	9,966	4,819	25,779
Total 1997–98	701	17,640	23,283	7,793	49,417

Note: Columns may not add exactly to totals due to rounding.

Table A9: Separations attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: females, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	25	482	248	755
Alcoholism and alcoholic liver cirrhosis	139	2,006	4,000	621	6,766
Road injuries	82	715	330	55	1,182
Other	124	4,032	4,592	3,465	12,213
Total 1995–96	346	6,777	9,404	4,389	20,917
1996–97					
Cancer	0	25	482	245	751
Alcoholism and alcoholic liver cirrhosis	124	2,119	4,428	668	7,339
Road injuries	84	661	313	55	1,113
Other	106	3,900	4,499	3,648	12,154
Total 1996–97	314	6,705	9,722	4,616	21,357
1997–98					
Cancer	0	25	519	265	808
Alcoholism and alcoholic liver cirrhosis	135	2,071	5,074	668	7,948
Road injuries	81	628	296	50	1,056
Other	118	3,789	4,528	3,759	12,193
Total 1997–98	334	6,513	10,417	4,742	22,005

Note: Columns may not add exactly to totals due to rounding.

Table A10: Separations attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: persons, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	39	1,021	784	1,844
Alcoholism and alcoholic liver cirrhosis	266	6,173	15,158	2,847	24,444
Road injuries	419	4,146	1,503	299	6,366
Other	378	15,216	14,431	7,950	37,975
Total 1995–96	1,062	25,574	32,113	11,881	70,630
1996–97					
Cancer	0	40	1,055	780	1,874
Alcoholism and alcoholic liver cirrhosis	253	6,049	15,660	2,992	24,954
Road injuries	402	3,935	1,537	310	6,184
Other	359	14,914	14,465	8,384	38,121
Total 1996–97	1,015	24,937	32,716	12,466	71,133
1997–98					
Cancer	0	35	1,126	843	2,004
Alcoholism and alcoholic liver cirrhosis	278	5,854	16,638	2,830	25,600
Road injuries	410	3,711	1,442	283	5,846
Other	346	14,553	14,494	8,578	37,971
Total 1997–98	1,034	24,153	33,700	12,535	71,422

Note: Columns may not add exactly to totals due to rounding.

Table A11: Patient days attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: males, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	80	4,652	5,190	9,922
Alcoholism and alcoholic liver cirrhosis	145	18,191	89,467	43,782	151,586
Road injuries	1,496	19,671	8,091	2,874	32,132
Other	5,380	30,334	48,033	47,222	130,970
Total 1995–96	7,022	68,277	150,243	99,069	324,610
1996–97					
Cancer	0	104	4,449	4,963	9,516
Alcoholism and alcoholic liver cirrhosis	8,576	16,959	118,226	39,357	183,117
Road injuries	1,279	18,482	9,003	3,053	31,817
Other	5,836	36,914	47,185	45,903	135,839
Total 1996–97	15,691	72,459	178,863	93,276	360,289
1997–98					
Cancer	0	73	4,376	5,042	9,490
Alcoholism and alcoholic liver cirrhosis	164	15,719	146,136	49,969	211,988
Road injuries	1,187	16,651	7,842	2,286	27,967
Other	6,311	27,387	42,198	44,178	120,073
Total 1997–98	7,662	59,830	200,551	101,475	369,518

Note: Columns may not add exactly to totals due to rounding.

Table A12: Patient days attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: females, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	94	2,692	2,111	4,896
Alcoholism and alcoholic liver cirrhosis	162	8,466	31,611	15,788	56,028
Road injuries	361	3,448	1,955	563	6,327
Other	4,712	11,710	23,131	37,649	77,202
Total 1995–96	5,234	23,719	59,389	56,110	144,453
1996–97					
Cancer	0	102	2,381	2,027	4,511
Alcoholism and alcoholic liver cirrhosis	155	8,733	32,115	12,129	53,132
Road injuries	299	3,459	1,864	536	6,157
Other	5,214	12,590	26,140	37,390	81,334
Total 1996–97	5,667	24,884	62,500	52,082	145,134
1997–98					
Cancer	0	98	2,610	2,027	4,735
Alcoholism and alcoholic liver cirrhosis	149	7,756	30,202	10,342	48,449
Road injuries	319	3,231	1,667	456	5,673
Other	5,283	10,478	21,199	35,590	72,550
Total 1997–98	5,751	21,563	55,679	48,415	131,407

Note: Columns may not add exactly to totals due to rounding.

Table A13: Patient days attributable to hazardous and harmful alcohol consumption relative to low consumption, by reason for separation, age and year: persons, 1995–96 to 1997–98

Year/reason for separation	Age				All ages
	0–14	15–34	35–64	65 and over	
1995–96					
Cancer	0	174	7,343	7,301	14,818
Alcoholism and alcoholic liver cirrhosis	307	26,658	121,079	59,571	207,614
Road injuries	1,857	23,119	10,046	3,437	38,459
Other	10,092	42,045	71,164	84,871	208,172
Total 1995–96	12,256	91,996	209,632	155,180	469,063
1996–97					
Cancer	0	205	6,831	6,990	14,026
Alcoholism and alcoholic liver cirrhosis	8,731	25,692	150,341	51,486	236,249
Road injuries	1,577	21,941	10,867	3,589	37,974
Other	11,050	49,505	73,325	83,293	217,173
Total 1996–97	21,358	97,343	241,363	145,358	505,423
1997–98					
Cancer	0	171	6,986	7,068	14,225
Alcoholism and alcoholic liver cirrhosis	313	23,475	176,338	60,311	260,437
Road injuries	1,506	19,883	9,509	2,742	33,640
Other	11,594	37,865	63,397	79,768	192,623
Total 1997–98	13,412	81,394	256,230	149,889	500,925

Note: Columns may not add exactly to totals due to rounding.