Table 1: Proportions of sample for acute alcohol use (AAU) and coding of alcohol as a contributory cause of death.

Alcohol coded as contributory	AAU identified (i.e., BAC >50mg/100mL)	
	No	Yes
No	3,266 (95.5%)	822 (66.4%)
Yes	154 (4.5%)	416 (33.6%)
Total	3,420	1,238

Table 2: Results of binomial regression modelling for risk of suicide death involving acute alcohol use for females, by case characteristics.

Characteristic		RR	95% CI	P-value	ARR	95% CI	P-value
Ethnicity	European	REF					
	Māori	1.50	1.24–1.83	<0.000	1.35	1.08–1.68	0.008
	Pacific peoples	1.85	1.29–2.65	0.001	1.75	1.22–2.51	0.002
	Other	0.45	0.25–0.82	0.009	0.47	0.26–0.86	0.015
Age group	25–34	REF					
	15–19	0.76	0.55–1.04	0.085	0.85	0.59–1.21	0.359
	20–24	1.01	0.75–1.36	0.971	0.95	0.70–1.27	0.722
	35–44	0.82	0.61–1.10	0.180	0.87	0.64–1.17	0.347
	45–54	0.81	0.61–1.07	0.144	0.87	0.65–1.18	0.374
	55–64	0.56	0.38–0.82	0.003	0.63	0.43–0.94	0.024
	65–74	0.35	0.17–0.71	0.004	0.55	0.22–1.36	0.194
	75+	0.25	0.12–0.59	0.002	0.39	0.12–1.28	0.120
Employment	Employed	REF					
	Unemployed	1.12	0.90–1.39	0.320	1.01	0.81–1.25	0.954
	Student	0.69	0.49–0.99	0.042	0.58	0.38–0.87	0.009
	Retired/pensioner	0.35	0.21–0.59	<0.000	0.61	0.28–1.32	0.205
	Other	0.94	0.67–1.30	0.696	0.93	0.67–1.29	0.666
	Unknown	1.03	0.68–1.57	0.879	0.95	0.63–1.44	0.824
Marital status	Never married	REF					
	Widowed	0.64	0.38–1.06	0.082	1.27	0.74–2.18	0.383
	Divorced/separated	0.75	0.54–1.03	0.079	0.83	0.59–1.17	0.299
	Married/de facto	0.84	0.68–1.04	0.115	0.89	0.71–1.11	0.297
	Unknown	1.28	0.88–1.88	0.195	1.40	0.96–2.04	0.082

Adjusted results are adjusted for age group, ethnicity, marital status and employment status. Values are rounded to 2.d.p (except for p-value, which is rounded to 3.d.p).
Adjusted risk ratio = ARR; confidence interval = CI; risk ratio = RR; reference category = REF.

Table 3: Results of binomial regression modelling for risk of suicide death involving acute alcohol use for males, by case characteristics.

Characteristic		RR	95% CI	P-value	ARR	95% CI	P-value
Ethnicity	European	REF					
	Māori	1.19	1.04–1.35	0.011	1.11	0.96–1.27	0.146
	Pacific peoples	1.27	1.01–1.60	0.043	1.21	0.95–1.52	0.117
	Other	0.62	0.45–0.85	0.003	0.62	0.45–0.85	0.003
Age group	25–34	REF					
	15–19	0.68	0.54–0.87	0.002	0.71	0.54–0.93	0.014
	20–24	1.09	0.91–1.30	0.347	1.08	0.90–1.28	0.413
	35–44	1.04	0.88–1.23	0.623	1.05	0.89–1.24	0.567
	45–54	0.86	0.73–1.03	0.094	0.86	0.72–1.03	0.106
	55–64	0.73	0.59–0.90	0.004	0.74	0.59–0.92	0.007
	65–74	0.46	0.32–0.68	<0.000	0.59	0.37–0.95	0.029
	75+	0.26	0.15–0.43	<0.000	0.31	0.16–0.60	<0.000
Employment	Employed	REF					
	Unemployed	0.77	0.67–0.88	<0.000	0.74	0.65–0.85	<0.000
	Student	0.64	0.49–0.84	0.001	0.76	0.56–1.03	0.072
	Retired/pensioner	0.36	0.27–0.48	<0.000	0.61	0.41–0.92	0.020
	Other	0.40	0.25–0.66	<0.000	0.40	0.24–0.65	<0.000
	Unknown	0.91	0.70–1.19	0.510	0.88	0.67–1.16	0.370
Marital status	Never married	REF					
	Widowed	0.79	0.53–1.19	0.265	1.72	1.16–2.55	0.007
	Divorced/separated	1.08	0.92–1.27	0.325	1.07	0.90–1.27	0.455
	Married/de facto	0.92	0.81–1.04	0.185	0.94	0.81–1.08	0.377
	Unknown	0.98	0.76–1.27	0.876	1.05	0.81–1.36	0.694

Adjusted results are adjusted for age group, ethnicity, marital status and employment status. Values are rounded to 2.d.p (except for p-value, which is rounded to 3.d.p).
Adjusted risk ratio = ARR; confidence interval = CI; risk ratio = RR; reference category = REF.

Table 4: Proportion coded with alcohol as a contributory cause of death by BAC.

BAC category (mg/100mL)	Alcohol not coded as contributory	Alcohol coded as contributory
51–100	234 (81.0%)	55 (19.0%)
101–150	277 (76.3%)	86 (23.7%)
151–200	209 (64.9%)	113 (35.1%)
201–250	68 (38.9%)	107 (61.1%)
>250	34 (38.2%)	55 (61.8%)
Total	822 (66.4%)	416 (33.6%)

Table 5: Results of regression modelling showing the risk (likelihood) of BAC+ suicides having an alcohol code assigned as a contributory or underlying cause of death.

Characteristic		RR	95% CI	P-value	ARR	95% CI	P-value
Sex	Male	REF					
	Female	1.30	1.11–1.53	0.002	1.11	0.94–1.32	0.218
Ethnicity	European	REF					
	Māori	0.81	0.67–0.98	0.034	0.93	0.76–1.13	0.459
	Pacific peoples	0.61	0.39–0.95	0.030	0.73	0.47–1.15	0.173
	Other	0.57	0.32–1.03	0.061	0.70	0.39–1.25	0.233
Age group	25–34	REF					
	15–19	0.85	0.60–1.20	0.347	1.03	0.73–1.47	0.852
	20–24	0.88	0.67–1.17	0.384	0.96	0.73–1.25	0.752
	35–44	1.12	0.89–1.42	0.343	1.16	0.92–1.47	0.216
	45–54	1.10	0.86–1.39	0.458	1.09	0.86–1.39	0.461
	55–64	1.04	0.77–1.40	0.816	1.07	0.78–1.46	0.692
	65–74	1.14	0.70–1.84	0.597	1.10	0.60–2.02	0.762
	75+	1.12	0.61–2.06	0.722	1.35	0.55–3.29	0.516
Employment	Employed	REF					
	Unemployed	1.14	0.95–1.37	0.152	1.08	0.91–1.30	0.371
	Student	0.83	0.56–1.23	0.351	1.03	0.69–1.52	0.888
	Retired/pensioner	1.29	0.93–1.81	0.129	1.46	0.87–2.47	0.154
	Other	1.58	1.16–2.14	0.003	1.30	0.94–1.79	0.113
	Unknown	0.91	0.60–1.38	0.651	0.94	0.63–1.40	0.768
Marital status	Never married	REF					
	Widowed	0.96	0.59–1.57	0.876	0.58	0.32–1.03	0.064
	Divorced/separated	0.91	0.71–1.15	0.422	0.81	0.64–1.04	0.096
	Married/de facto	0.85	0.71–1.02	0.089	0.81	0.67–0.98	0.031
	Unknown	1.09	0.79–1.50	0.618	0.98	0.72–1.34	0.917
Method of death	Poisoning	REF					
	Hanging	0.72	0.60–0.86	<0.000	0.75	0.62–0.92	0.005
	Drowning	1.23	0.75–2.03	0.414	0.98	0.61–1.58	0.938

Table 5 (continued): Results of regression modelling showing the risk (likelihood) of BAC+ suicides having an alcohol code assigned as a contributory or underlying cause of death.

Method of death (continued)	Firearm	0.56	0.38–0.84	0.005	0.55	0.38–0.80	0.002
	Sharp object	0.89	0.44–1.80	0.740	0.93	0.51–1.69	0.802
	Falls	1.09	0.66–1.80	0.726	0.82	0.48–1.38	0.454
	Other	1.07	0.70–1.64	0.752	1.05	0.68–1.62	0.816
BAC category	51–100	REF					
	101–150	1.24	0.92–1.68	0.154	1.32	0.98–1.77	0.070
	151–200	1.84	1.39–2.44	<0.000	1.90	1.44–2.50	<0.000
	201–250	3.21	2.46–4.19	<0.000	3.32	2.55–4.34	<0.000
	>250	3.23	2.43–4.33	<0.000	2.99	2.22–4.01	<0.000

Adjusted results adjusted for sex, ethnicity, age group, employment, marital status, cause of death and BAC category. Values are rounded to 2.d.p (except for p-value, which is rounded to 3.d.p).
Adjusted risk ratio = ARR; confidence interval = CI; risk ratio = RR; reference category = REF.