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# 13 – Neurological Outcomes

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# 13.1 VIBRATION PERCEPTION SENSATION – FINGER

Appendix 13A : Vibration perception threshold score, finger: Multiple linear regression summary for all exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	1.08	0.59	1.57
<b>GROUP</b>			
Amberley	-0.04	-0.09	0.01
Richmond	-0.05	-0.09	-0.00
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	-0.48	-0.64	-0.32
30-34yrs	-0.48	-0.62	-0.35
35-39yrs	-0.42	-0.55	-0.30
40-44yrs	-0.32	-0.44	-0.21
45-49yrs	-0.22	-0.33	-0.11
50-54yrs	-0.15	-0.26	-0.04
55-59yrs	-0.06	-0.18	0.06
> 60yrs (reference)	0.00	.	.
<b>POSTING CATEGORY</b>			
1980-1984	0.02	-0.04	0.07
1985-1989	-0.01	-0.07	0.05
1990-1994	0.03	-0.05	0.11
1995-1999	-0.05	-0.15	0.06
1975-1979 (reference)	0.00	.	.
<b>RANK CATEGORY</b>			
Civilian	-0.06	-0.19	0.07
Non Comm Officer	-0.01	-0.06	0.04
Officer	-0.06	-0.18	0.06
Unknown	0.05	-0.11	0.22
Enlisted (reference)	0.00	.	.

## Appendix 13A continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>SMOKER CATEGORY</b>			
Current smoker	0.08	0.03	0.14
Ex smoker	0.04	0.00	0.09
Never smoked (reference)	0.00	.	.
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.07	-0.04	0.19
Hazardous Drinker	0.03	-0.01	0.07
Moderate	0.01	-0.04	0.06
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.02	0.07
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	-0.01	-0.07	0.05
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.13	0.02	0.23
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.00	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	-0.00	-0.08	0.08
Canberra	0.10	-0.01	0.20
Ipswich	-0.06	-0.12	-0.00
Melbourne	0.05	-0.03	0.14
Newcastle	0.17	0.09	0.26
Parramatta	-0.04	-0.09	0.02
Perth	-0.27	-0.37	-0.17
Brisbane (reference)	0.00	.	.

**Appendix 13B : Vibration perception threshold score, finger: Most parsimonious model obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
Intercept	1.13	0.64	1.61
<b>GROUP</b>			
Amberley	-0.05	-0.10	-0.01
Richmond	-0.05	-0.09	-0.00
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	-0.51	-0.65	-0.38
30-34yrs	-0.50	-0.61	-0.38
35-39yrs	-0.43	-0.54	-0.32
40-44yrs	-0.33	-0.44	-0.22
45-49yrs	-0.22	-0.33	-0.12
50-54yrs	-0.16	-0.27	-0.05
55-59yrs	-0.06	-0.18	0.06
> 60yrs (reference)	0.00	.	.
<b>SMOKER CATEGORY</b>			
Current smoker	0.10	0.05	0.15
Ex smoker	0.05	0.01	0.10
Never smoked (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.16	0.05	0.26
No diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.00	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	-0.00	-0.08	0.08
Canberra	0.09	-0.01	0.20
Ipswich	-0.06	-0.12	-0.01
Melbourne	0.05	-0.03	0.13
Newcastle	0.16	0.08	0.25
Parramatta	-0.04	-0.09	0.01
Perth	-0.24	-0.33	-0.14
Brisbane (reference)	0.00	.	.

**Appendix 13C : Vibration perception threshold score, finger: Multiple linear regression with confidence intervals computed using robust standard error estimates derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	1.08	0.80	1.36
<b>GROUP</b>			
<b>Amberley</b>	-0.04	-0.10	0.02
<b>Richmond</b>	-0.05	-0.08	-0.01
<b>Exposed (reference)</b>	0.00	0.00	0.00
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-0.48	-0.68	-0.28
<b>30-34yrs</b>	-0.48	-0.64	-0.32
<b>35-39yrs</b>	-0.42	-0.57	-0.28
<b>40-44yrs</b>	-0.32	-0.48	-0.17
<b>45-49yrs</b>	-0.22	-0.35	-0.08
<b>50-54yrs</b>	-0.15	-0.29	-0.01
<b>55-59yrs</b>	-0.06	-0.14	0.03
<b>&gt; 60yrs (reference)</b>	0.00	0.00	0.00
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.02	-0.01	0.04
<b>1985-1989</b>	-0.01	-0.04	0.03
<b>1990-1994</b>	0.03	-0.06	0.12
<b>1995-1999</b>	-0.05	-0.15	0.05
<b>1975-1979 (reference)</b>	0.00	0.00	0.00
<b>RANK CATEGORY</b>			
<b>Civilian</b>	-0.06	-0.11	-0.02
<b>Non Comm Officer</b>	-0.01	-0.08	0.05
<b>Officer</b>	-0.06	-0.17	0.05
<b>Unknown</b>	0.05	-0.06	0.16
<b>Enlisted (reference)</b>	0.00	0.00	0.00
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.08	0.04	0.12
<b>Ex smoker</b>	0.04	0.02	0.06
<b>Never smoked (reference)</b>	0.00	0.00	0.00

## Appendix 13C continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.07	-0.05	0.20
Hazardous Drinker	0.03	-0.00	0.06
Moderate	0.01	-0.01	0.03
Safe Drinker (reference)	0.00	0.00	0.00
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.03	0.07
No civilian OS exposure (reference)	0.00	0.00	0.00
<b>NT EXPOSURE</b>			
Civilian NT exposure	-0.01	-0.04	0.03
No civilian NT exposure (reference)	0.00	0.00	0.00
<b>DIABETES</b>			
Diabetes	0.13	-0.01	0.27
No diabetes (reference)	0.00	0.00	0.00
<b>HEIGHT</b>			
Height	0.00	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	-0.00	-0.01	0.01
Canberra	0.10	0.08	0.12
Ipswich	-0.06	-0.07	-0.05
Melbourne	0.05	0.04	0.06
Newcastle	0.17	0.16	0.19
Parramatta	-0.04	-0.05	-0.02
Perth	-0.27	-0.28	-0.26
Brisbane (reference)	0.00	0.00	0.00

**Appendix 13D : Vibration perception threshold score, finger: Multiple linear regression where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	1.12	0.55	1.68
<b>GROUP</b>			
<b>Amberley</b>	-0.03	-0.09	0.03
<b>Richmond</b>	-0.03	-0.09	0.03
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-0.50	-0.70	-0.29
<b>30-34yrs</b>	-0.52	-0.68	-0.36
<b>35-39yrs</b>	-0.43	-0.57	-0.28
<b>40-44yrs</b>	-0.35	-0.48	-0.22
<b>45-49yrs</b>	-0.25	-0.37	-0.12
<b>50-54yrs</b>	-0.19	-0.32	-0.06
<b>55-59yrs</b>	-0.09	-0.22	0.05
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.01	-0.04	0.07
<b>1985-1989</b>	-0.01	-0.09	0.06
<b>1990-1994</b>	0.01	-0.09	0.11
<b>1995-1999</b>	-0.07	-0.20	0.07
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	-0.24	-0.60	0.13
<b>Non Comm Officer</b>	-0.02	-0.08	0.04
<b>Officer</b>	-0.09	-0.23	0.04
<b>Unknown</b>	0.06	-0.13	0.25
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.09	0.03	0.15
<b>Ex smoker</b>	0.06	0.01	0.11
<b>Never smoked (reference)</b>	0.00	.	.

## Appendix 13D continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.06	-0.07	0.20
Hazardous Drinker	0.05	0.00	0.10
Moderate	0.03	-0.03	0.09
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.01	-0.04	0.06
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	-0.03	-0.09	0.04
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.17	0.06	0.28
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.00	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	0.01	-0.07	0.10
Canberra	0.14	0.02	0.25
Ipswich	-0.04	-0.11	0.03
Melbourne	0.06	-0.02	0.15
Newcastle	0.17	0.08	0.27
Parramatta	-0.03	-0.09	0.03
Perth	-0.27	-0.38	-0.17
Brisbane (reference)	0.00	.	.

**Appendix 13E : Vibration perception threshold score, finger: Multiple linear regression where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
Intercept	0.99	0.43	1.54
<b>GROUP</b>			
Amberley	-0.05	-0.11	0.02
Richmond	-0.06	-0.12	0.01
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	-0.51	-0.69	-0.32
30-34yrs	-0.50	-0.66	-0.35
35-39yrs	-0.45	-0.59	-0.30
40-44yrs	-0.34	-0.48	-0.21
45-49yrs	-0.26	-0.39	-0.13
50-54yrs	-0.20	-0.33	-0.06
55-59yrs	-0.11	-0.25	0.04
> 60yrs (reference)	0.00	.	.
<b>POSTING CATEGORY</b>			
1980-1984	0.02	-0.04	0.08
1985-1989	-0.02	-0.08	0.05
1990-1994	0.02	-0.07	0.11
1995-1999	-0.09	-0.21	0.04
1975-1979 (reference)	0.00	.	.
<b>RANK CATEGORY</b>			
Civilian	0.01	-0.14	0.16
Non Comm Officer	-0.01	-0.06	0.05
Officer	-0.09	-0.22	0.05
Unknown	-0.11	-0.40	0.18
Enlisted (reference)	0.00	.	.
<b>SMOKER CATEGORY</b>			
Current smoker	0.07	0.01	0.13
Ex smoker	0.03	-0.02	0.08
Never smoked (reference)	0.00	.	.

Appendix 13E continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.04	-0.10	0.18
Hazardous Drinker	0.05	0.00	0.10
Moderate	0.03	-0.03	0.08
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	-0.00	-0.05	0.05
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	0.03	-0.04	0.09
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.19	0.07	0.32
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.01	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	0.04	-0.04	0.13
Canberra	0.10	-0.01	0.21
Ipswich	-0.07	-0.13	-0.00
Melbourne	0.05	-0.03	0.14
Newcastle	0.18	0.08	0.27
Parramatta	-0.03	-0.09	0.03
Perth	-0.29	-0.39	-0.18
Brisbane (reference)	0.00	.	.

**Appendix 13F : Vibration perception threshold score, finger: Multiple linear regression where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	1.09	0.59	1.59
<b>EXPOSURE</b>			
<b>Mild exposure</b>	0.03	-0.04	0.09
<b>Moderate exposure</b>	0.08	0.02	0.14
<b>Prolonged exposure</b>	0.02	-0.04	0.08
<b>Unexposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-0.46	-0.63	-0.29
<b>30-34yrs</b>	-0.47	-0.61	-0.33
<b>35-39yrs</b>	-0.41	-0.54	-0.29
<b>40-44yrs</b>	-0.32	-0.43	-0.20
<b>45-49yrs</b>	-0.21	-0.33	-0.10
<b>50-54yrs</b>	-0.15	-0.27	-0.03
<b>55-59yrs</b>	-0.06	-0.18	0.07
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.01	-0.04	0.06
<b>1985-1989</b>	-0.01	-0.07	0.05
<b>1990-1994</b>	0.03	-0.06	0.11
<b>1995-1999</b>	-0.07	-0.19	0.04
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	-0.04	-0.19	0.10
<b>Non Comm Officer</b>	-0.01	-0.06	0.04
<b>Officer</b>	-0.04	-0.16	0.07
<b>Unknown</b>	0.05	-0.13	0.22
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.09	0.04	0.15
<b>Ex smoker</b>	0.05	0.00	0.09
<b>Never smoked (reference)</b>	0.00	.	.

## Appendix 13F continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.07	-0.05	0.19
Hazardous Drinker	0.03	-0.02	0.07
Moderate	0.02	-0.03	0.07
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.03	0.06
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	-0.01	-0.08	0.05
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.13	0.02	0.23
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.00	0.00	0.01
<b>H.S.A. CENTRE</b>			
Adelaide	-0.01	-0.09	0.07
Canberra	0.09	-0.02	0.20
Ipswich	-0.07	-0.13	-0.01
Melbourne	0.05	-0.03	0.13
Newcastle	0.17	0.08	0.25
Parramatta	-0.04	-0.09	0.01
Perth	-0.27	-0.37	-0.17
Brisbane (reference)	0.00	.	.

## 13.2 VIBRATION PERCEPTION SENSATION - TOE

Appendix 13G : Vibration perception threshold score, toe: Multiple linear regression summary for all exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	-2.22	-2.78	-1.65
<b>GROUP</b>			
Amberley	-0.01	-0.06	0.05
Richmond	-0.02	-0.08	0.03
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	-1.10	-1.29	-0.91
30-34yrs	-0.92	-1.08	-0.77
35-39yrs	-0.85	-0.99	-0.71
40-44yrs	-0.72	-0.86	-0.59
45-49yrs	-0.54	-0.67	-0.42
50-54yrs	-0.43	-0.56	-0.30
55-59yrs	-0.24	-0.38	-0.10
> 60yrs (reference)	0.00	.	.
<b>POSTING CATEGORY</b>			
1980-1984	0.00	-0.06	0.07
1985-1989	-0.05	-0.12	0.02
1990-1994	0.02	-0.08	0.11
1995-1999	-0.04	-0.16	0.08
1975-1979 (reference)	0.00	.	.
<b>RANK CATEGORY</b>			
Civilian	0.12	-0.03	0.27
Non Comm Officer	-0.02	-0.08	0.04
Officer	0.01	-0.13	0.14
Unknown	0.18	-0.01	0.37
Enlisted (reference)	0.00	.	.

Appendix 13G continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>SMOKER CATEGORY</b>			
Current smoker	0.07	0.01	0.13
Ex smoker	0.06	0.01	0.11
Never smoked (reference)	0.00	.	.
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.05	-0.09	0.18
Hazardous Drinker	0.01	-0.04	0.06
Moderate	-0.01	-0.07	0.05
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.03	0.07
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	0.02	-0.05	0.09
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.33	0.21	0.45
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.03	0.03	0.03
<b>H.S.A. CENTRE</b>			
Adelaide	-0.27	-0.36	-0.18
Canberra	-0.02	-0.14	0.10
Ipswich	-0.04	-0.11	0.02
Melbourne	-0.02	-0.11	0.07
Newcastle	-0.01	-0.10	0.09
Parramatta	-0.11	-0.17	-0.05
Perth	-0.24	-0.36	-0.13
Brisbane (reference)	0.00	.	.

**Appendix 13H : Vibration perception threshold score, toe: Most parsimonious  
model obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
Intercept	-2.22	-2.78	-1.66
<b>GROUP</b>			
Amberley	-0.02	-0.07	0.04
Richmond	-0.02	-0.08	0.03
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	-1.14	-1.29	-0.98
30-34yrs	-0.97	-1.11	-0.83
35-39yrs	-0.89	-1.02	-0.75
40-44yrs	-0.75	-0.87	-0.62
45-49yrs	-0.56	-0.69	-0.44
50-54yrs	-0.45	-0.58	-0.32
55-59yrs	-0.25	-0.38	-0.11
> 60yrs (reference)	0.00	.	.
<b>RANK CATEGORY</b>			
Civilian	0.12	-0.02	0.26
Non Comm Officer	-0.02	-0.08	0.03
Officer	-0.01	-0.14	0.12
Unknown	0.20	0.01	0.39
Enlisted (reference)	0.00	.	.
<b>SMOKER CATEGORY</b>			
Current smoker	0.07	0.02	0.13
Ex smoker	0.07	0.02	0.11
Never smoked (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.33	0.21	0.44
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.03	0.03	0.03

Appendix 13H continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-0.26	-0.36	-0.17
<b>Canberra</b>	-0.03	-0.15	0.09
<b>Ipswich</b>	-0.03	-0.10	0.03
<b>Melbourne</b>	-0.02	-0.11	0.07
<b>Newcastle</b>	-0.01	-0.11	0.09
<b>Parramatta</b>	-0.11	-0.17	-0.05
<b>Perth</b>	-0.24	-0.35	-0.13
<b>Brisbane (reference)</b>	0.00	.	.

**Appendix 13I : Vibration perception threshold score, toe: Multiple linear regression with confidence intervals computed using robust standard error estimates derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	-2.22	-3.06	-1.38
<b>GROUP</b>			
<b>Amberley</b>	-0.01	-0.09	0.07
<b>Richmond</b>	-0.02	-0.07	0.03
<b>Exposed (reference)</b>	0.00	0.00	0.00
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-1.10	-1.22	-0.98
<b>30-34yrs</b>	-0.92	-1.03	-0.82
<b>35-39yrs</b>	-0.85	-0.94	-0.76
<b>40-44yrs</b>	-0.72	-0.82	-0.62
<b>45-49yrs</b>	-0.54	-0.67	-0.42
<b>50-54yrs</b>	-0.43	-0.56	-0.30
<b>55-59yrs</b>	-0.24	-0.34	-0.13
<b>&gt; 60yrs (reference)</b>	0.00	0.00	0.00
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.00	-0.03	0.04
<b>1985-1989</b>	-0.05	-0.08	-0.01
<b>1990-1994</b>	0.02	-0.05	0.08
<b>1995-1999</b>	-0.04	-0.15	0.07
<b>1975-1979 (reference)</b>	0.00	0.00	0.00
<b>RANK CATEGORY</b>			
<b>Civilian</b>	0.12	0.04	0.20
<b>Non Comm Officer</b>	-0.02	-0.06	0.02
<b>Officer</b>	0.01	-0.10	0.12
<b>Unknown</b>	0.18	0.10	0.27
<b>Enlisted (reference)</b>	0.00	0.00	0.00
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.07	-0.01	0.15
<b>Ex smoker</b>	0.06	0.03	0.08
<b>Never smoked (reference)</b>	0.00	0.00	0.00

Appendix 13I continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.05	-0.02	0.11
Hazardous Drinker	0.01	-0.06	0.08
Moderate	-0.01	-0.06	0.04
Safe Drinker (reference)	0.00	0.00	0.00
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.02	0.06
No civilian OS exposure (reference)	0.00	0.00	0.00
<b>NT EXPOSURE</b>			
Civilian NT expo	0.02	-0.03	0.07
no civilian NT e (reference)	0.00	0.00	0.00
<b>DIABETES</b>			
Diabetes	0.33	0.18	0.48
no diabetes (reference)	0.00	0.00	0.00
<b>HEIGHT</b>			
Height	0.03	0.02	0.03
<b>H.S.A. CENTRE</b>			
Adelaide	-0.27	-0.28	-0.26
Canberra	-0.02	-0.04	-0.01
Ipswich	-0.04	-0.06	-0.03
Melbourne	-0.02	-0.04	-0.01
Newcastle	-0.01	-0.03	0.02
Parramatta	-0.11	-0.13	-0.10
Perth	-0.24	-0.26	-0.22
Brisbane (reference)	0.00	0.00	0.00

**Appendix 13J : Vibration perception threshold score, toe: Multiple linear regression where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	-2.35	-3.00	-1.70
<b>GROUP</b>			
<b>Amberley</b>	0.04	-0.03	0.11
<b>Richmond</b>	0.03	-0.04	0.09
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-1.11	-1.35	-0.87
<b>30-34yrs</b>	-1.00	-1.19	-0.81
<b>35-39yrs</b>	-0.87	-1.04	-0.71
<b>40-44yrs</b>	-0.77	-0.92	-0.62
<b>45-49yrs</b>	-0.58	-0.72	-0.43
<b>50-54yrs</b>	-0.47	-0.62	-0.33
<b>55-59yrs</b>	-0.27	-0.42	-0.11
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	-0.00	-0.07	0.06
<b>1985-1989</b>	-0.07	-0.15	0.02
<b>1990-1994</b>	-0.02	-0.13	0.10
<b>1995-1999</b>	-0.10	-0.26	0.06
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	0.07	-0.35	0.50
<b>Non Comm Officer</b>	-0.04	-0.10	0.03
<b>Officer</b>	-0.02	-0.17	0.13
<b>Unknown</b>	0.22	-0.00	0.43
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.06	-0.01	0.13
<b>Ex smoker</b>	0.07	0.01	0.13
<b>Never smoked (reference)</b>	0.00	.	.

Appendix 13J continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.07	-0.08	0.23
Hazardous Drinker	0.04	-0.02	0.10
Moderate	0.01	-0.05	0.08
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.04	-0.02	0.10
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	-0.01	-0.09	0.07
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.36	0.23	0.49
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.03	0.03	0.03
<b>H.S.A. CENTRE</b>			
Adelaide	-0.29	-0.39	-0.19
Canberra	-0.03	-0.16	0.11
Ipswich	-0.06	-0.14	0.02
Melbourne	-0.06	-0.16	0.04
Newcastle	-0.05	-0.16	0.06
Parramatta	-0.13	-0.19	-0.06
Perth	-0.25	-0.37	-0.13
Brisbane (reference)	0.00	.	.

**Appendix 13K : Vibration perception threshold score, toe: Multiple linear regression where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	-2.39	-3.02	-1.75
<b>GROUP</b>			
<b>Amberley</b>	-0.01	-0.08	0.06
<b>Richmond</b>	-0.03	-0.10	0.05
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-1.16	-1.38	-0.95
<b>30-34yrs</b>	-0.99	-1.17	-0.82
<b>35-39yrs</b>	-0.93	-1.09	-0.76
<b>40-44yrs</b>	-0.78	-0.94	-0.63
<b>45-49yrs</b>	-0.61	-0.76	-0.46
<b>50-54yrs</b>	-0.48	-0.63	-0.32
<b>55-59yrs</b>	-0.26	-0.42	-0.09
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.02	-0.05	0.09
<b>1985-1989</b>	-0.03	-0.11	0.05
<b>1990-1994</b>	0.02	-0.08	0.12
<b>1995-1999</b>	-0.07	-0.21	0.08
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	0.12	-0.05	0.29
<b>Non Comm Officer</b>	-0.04	-0.11	0.02
<b>Officer</b>	-0.03	-0.18	0.13
<b>Unknown</b>	0.08	-0.25	0.42
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.10	0.04	0.17
<b>Ex smoker</b>	0.06	0.00	0.11
<b>Never smoked (reference)</b>	0.00	.	.

Appendix 13K continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
Former Hazardous	0.01	-0.15	0.17
Hazardous Drinker	0.04	-0.02	0.09
Moderate	-0.01	-0.08	0.05
Safe Drinker (reference)	0.00	.	.
<b>OS EXPOSURE</b>			
Civilian OS exposure	0.02	-0.04	0.08
No civilian OS exposure (reference)	0.00	.	.
<b>NT EXPOSURE</b>			
Civilian NT expo	0.00	-0.07	0.08
no civilian NT e (reference)	0.00	.	.
<b>DIABETES</b>			
Diabetes	0.34	0.20	0.48
no diabetes (reference)	0.00	.	.
<b>HEIGHT</b>			
Height	0.03	0.03	0.03
<b>H.S.A. CENTRE</b>			
Adelaide	-0.22	-0.32	-0.12
Canberra	-0.01	-0.14	0.12
Ipswich	-0.07	-0.14	0.01
Melbourne	-0.03	-0.13	0.07
Newcastle	-0.00	-0.11	0.10
Parramatta	-0.10	-0.16	-0.03
Perth	-0.23	-0.35	-0.11
Brisbane (reference)	0.00	.	.

**Appendix 13L : Vibration perception threshold score, toe: Multiple linear regression where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	-2.13	-2.71	-1.54
<b>EXPOSURE</b>			
<b>Mild exposure</b>	0.02	-0.06	0.09
<b>Moderate exposure</b>	0.04	-0.03	0.11
<b>Prolonged exposure</b>	-0.02	-0.09	0.05
<b>Unexposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	-1.12	-1.31	-0.92
<b>30-34yrs</b>	-0.93	-1.09	-0.77
<b>35-39yrs</b>	-0.86	-1.01	-0.71
<b>40-44yrs</b>	-0.74	-0.88	-0.61
<b>45-49yrs</b>	-0.57	-0.70	-0.44
<b>50-54yrs</b>	-0.46	-0.59	-0.32
<b>55-59yrs</b>	-0.25	-0.39	-0.11
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	0.00	-0.06	0.06
<b>1985-1989</b>	-0.05	-0.12	0.02
<b>1990-1994</b>	0.01	-0.08	0.11
<b>1995-1999</b>	-0.07	-0.20	0.06
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	0.14	-0.03	0.31
<b>Non Comm Officer</b>	-0.02	-0.08	0.04
<b>Officer</b>	0.00	-0.14	0.14
<b>Unknown</b>	0.20	-0.00	0.40
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.08	0.01	0.14
<b>Ex smoker</b>	0.06	0.01	0.11
<b>Never smoked (reference)</b>	0.00	.	.

Appendix 13L continued...

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous</b>	0.06	-0.08	0.20
<b>Hazardous Drinker</b>	0.02	-0.03	0.07
<b>Moderate</b>	-0.00	-0.06	0.06
<b>Safe Drinker (reference)</b>	0.00	.	.
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.02	-0.03	0.07
<b>No civilian OS exposure (reference)</b>	0.00	.	.
<b>NT EXPOSURE</b>			
<b>Civilian NT expo</b>	0.02	-0.05	0.09
<b>no civilian NT e (reference)</b>	0.00	.	.
<b>DIABETES</b>			
<b>Diabetes</b>	0.33	0.21	0.46
<b>no diabetes (reference)</b>	0.00	.	.
<b>HEIGHT</b>			
<b>Height</b>	0.03	0.03	0.03
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-0.27	-0.37	-0.18
<b>Canberra</b>	-0.03	-0.15	0.09
<b>Ipswich</b>	-0.06	-0.13	0.01
<b>Melbourne</b>	-0.04	-0.13	0.06
<b>Newcastle</b>	-0.01	-0.11	0.09
<b>Parramatta</b>	-0.11	-0.17	-0.05
<b>Perth</b>	-0.24	-0.36	-0.13
<b>Brisbane (reference)</b>	0.00	.	.

## 13.3 VIBRATION PERCEPTION CATEGORY - FINGER

Appendix 13M : Vibration perception category, finger: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.84	0.51	1.36
Richmond vs Exposed	0.76	0.47	1.22
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.07	0.01	0.38
30-34yrs vs 60-64yrs	0.02	0.00	0.11
35-39yrs vs 60-64yrs	0.10	0.03	0.29
40-44yrs vs 60-64yrs	0.15	0.06	0.37
45-49yrs vs 60-64yrs	0.31	0.14	0.69
50-54yrs vs 60-64yrs	0.51	0.23	1.12
55-59yrs vs 60-64yrs	0.97	0.43	2.19
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.43	0.89	2.29
1985-1989 vs 1975-1979	0.72	0.37	1.38
1990-1994 vs 1975-1979	2.07	0.95	4.52
1995-1999 vs 1975-1979	1.81	0.54	6.08
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.82	0.22	3.11
Non Comm Officer vs Enlisted	0.82	0.51	1.32
Officer vs Enlisted	0.97	0.34	2.79
Unknown vs Enlisted	2.39	0.77	7.42
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.96	1.15	3.34
Ex smoker vs Never smoked	1.63	1.04	2.54

Appendix 13M continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.38	0.49	3.89
<b>Hazardous Drinker vs Safe Drinker</b>	1.72	1.12	2.64
<b>Moderate vs Safe Drinker</b>	1.09	0.65	1.86
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.33	0.86	2.04
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	0.69	0.38	1.23
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.96	0.95	4.04
<b>HEIGHT</b>			
<b>Height</b>	1.03	1.00	1.06
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	3.00	1.60	5.62
<b>Canberra vs Brisbane</b>	1.28	0.54	3.05
<b>Ipswich vs Brisbane</b>	0.56	0.32	1.00
<b>Melbourne vs Brisbane</b>	0.90	0.41	2.00
<b>Newcastle vs Brisbane</b>	1.13	0.52	2.43
<b>Parramatta vs Brisbane</b>	0.45	0.24	0.82
<b>Perth vs Brisbane</b>	0.22	0.05	0.98

**Appendix 13N : Vibration perception category, finger: Most parsimonious model  
obtained by logistic regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.72	0.45	1.14
<b>Richmond vs Exposed</b>	0.66	0.42	1.03
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.13	0.03	0.52
<b>30-34yrs vs 60-64yrs</b>	0.03	0.01	0.13
<b>35-39yrs vs 60-64yrs</b>	0.12	0.05	0.30
<b>40-44yrs vs 60-64yrs</b>	0.18	0.08	0.41
<b>45-49yrs vs 60-64yrs</b>	0.34	0.16	0.73
<b>50-54yrs vs 60-64yrs</b>	0.52	0.24	1.12
<b>55-59yrs vs 60-64yrs</b>	0.92	0.42	2.03
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.96	1.16	3.31
<b>Ex smoker vs Never smoked</b>	1.58	1.02	2.45
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.32	0.48	3.62
<b>Hazardous Drinker vs Safe Drinker</b>	1.65	1.08	2.51
<b>Moderate vs Safe Drinker</b>	1.04	0.61	1.75
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.01	0.99	4.08
<b>HEIGHT</b>			
<b>Height</b>	1.02	1.00	1.05
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	2.84	1.53	5.27
<b>Canberra vs Brisbane</b>	1.21	0.52	2.83
<b>Ipswich vs Brisbane</b>	0.56	0.32	0.98
<b>Melbourne vs Brisbane</b>	0.95	0.44	2.09
<b>Newcastle vs Brisbane</b>	1.06	0.49	2.28
<b>Parramatta vs Brisbane</b>	0.46	0.26	0.83
<b>Perth vs Brisbane</b>	0.24	0.06	1.06

**Appendix 13O : Vibration perception category, finger: Multiple linear regression  
with confidence intervals computed using robust standard error estimates  
derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley	0.83	0.45	1.56
Richmond	0.76	0.51	1.13
Exposed	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
25-29yrs	0.07	0.02	0.27
30-34yrs	0.02	0.01	0.05
35-39yrs	0.10	0.05	0.20
40-44yrs	0.15	0.06	0.38
45-49yrs	0.31	0.19	0.51
50-54yrs	0.51	0.26	0.98
55-59yrs	0.97	0.69	1.38
60-64yrs	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
1980-1984	1.44	0.98	2.09
1985-1989	0.71	0.39	1.31
1990-1994	2.09	1.07	4.08
1995-1999	1.82	0.55	6.07
9975-1979	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
Civilian	0.82	0.48	1.42
Non Comm Officer	0.82	0.54	1.25
Officer	0.97	0.23	4.08
Unknown	2.41	0.46	12.64
Enlisted	1.00	1.00	1.00
<b>SMOKER CATEGORY</b>			
Current smoker	1.97	1.31	2.99
Ex smoker	1.64	1.12	2.39
Never smoked	1.00	1.00	1.00

Appendix 13O continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous</b>	1.38	0.71	2.71
<b>Hazardous Drinker</b>	1.73	1.34	2.22
<b>Moderate</b>	1.10	0.91	1.32
<b>Safe Drinker</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.33	1.00	1.77
<b>No civilian OS exposure</b>	1.00	1.00	1.00
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure</b>	0.68	0.53	0.89
<b>No civilian NT exposure</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	1.97	0.86	4.51
<b>No diabetes</b>	1.00	1.00	1.00
<b>HEIGHT</b>			
<b>Height</b>	1.03	1.00	1.06
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	3.24	2.97	3.52
<b>Canberra</b>	1.36	1.13	1.63
<b>Ipswich</b>	0.60	0.52	0.69
<b>Melbourne</b>	0.97	0.83	1.13
<b>Newcastle</b>	1.19	1.05	1.35
<b>Parramatta</b>	0.46	0.38	0.56
<b>Perth</b>	0.23	0.20	0.27
<b>Brisbane</b>	1.00	1.00	1.00

**Appendix 13P : Vibration perception category, finger: Multiple logistic regression  
where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	0.72	0.42	1.24
Richmond vs Exposed	0.66	0.39	1.11
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.18	0.02	1.44
30-34yrs vs 60-64yrs	0.03	0.00	0.25
35-39yrs vs 60-64yrs	0.12	0.04	0.38
40-44yrs vs 60-64yrs	0.15	0.06	0.39
45-49yrs vs 60-64yrs	0.28	0.12	0.66
50-54yrs vs 60-64yrs	0.43	0.18	1.00
55-59yrs vs 60-64yrs	0.82	0.35	1.94
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.29	0.80	2.11
1985-1989 vs 1975-1979	0.77	0.37	1.64
1990-1994 vs 1975-1979	1.41	0.52	3.86
1995-1999 vs 1975-1979	0.78	0.12	5.00
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.30	0.38	4.50
Non Comm Officer vs Enlisted	0.87	0.52	1.45
Officer vs Enlisted	1.24	0.41	3.70
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	2.32	1.30	4.12
Ex smoker vs Never smoked	1.69	1.04	2.75
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	1.09	0.35	3.39
Hazardous Drinker vs Safe Drinker	1.84	1.15	2.93
Moderate vs Safe Drinker	1.28	0.72	2.26
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.31	0.81	2.11

Appendix 13P continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	0.66	0.35	1.25
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.43	1.13	5.20
<b>HEIGHT</b>			
<b>Height</b>	1.02	0.99	1.05
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	3.11	1.63	5.92
<b>Canberra vs Brisbane</b>	1.47	0.60	3.59
<b>Ipswich vs Brisbane</b>	0.53	0.27	1.05
<b>Melbourne vs Brisbane</b>	0.90	0.39	2.11
<b>Newcastle vs Brisbane</b>	1.22	0.55	2.71
<b>Parramatta vs Brisbane</b>	0.42	0.22	0.80
<b>Perth vs Brisbane</b>	0.22	0.05	0.99

**Appendix 13Q : Vibration perception category, finger: Multiple linear regression  
where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	1.13	0.53	2.42
Richmond vs Exposed	1.06	0.50	2.27
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.05	0.00	0.58
30-34yrs vs 60-64yrs	0.03	0.00	0.18
35-39yrs vs 60-64yrs	0.12	0.03	0.42
40-44yrs vs 60-64yrs	0.15	0.05	0.44
45-49yrs vs 60-64yrs	0.24	0.09	0.65
50-54yrs vs 60-64yrs	0.41	0.15	1.13
55-59yrs vs 60-64yrs	0.84	0.30	2.32
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.47	0.82	2.66
1985-1989 vs 1975-1979	0.65	0.30	1.40
1990-1994 vs 1975-1979	2.00	0.81	4.93
1995-1999 vs 1975-1979	0.60	0.06	5.52
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.72	0.38	7.69
Non Comm Officer vs Enlisted	0.93	0.52	1.66
Officer vs Enlisted	1.51	0.43	5.27
Unknown vs Enlisted	3.18	0.38	26.59
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.74	0.92	3.30
Ex smoker vs Never smoked	1.39	0.81	2.41
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	3.21	0.92	11.20
Hazardous Drinker vs Safe Drinker	2.18	1.28	3.71
Moderate vs Safe Drinker	1.25	0.64	2.44
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.09	0.62	1.94

## Appendix 13Q continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	0.79	0.39	1.63
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	3.07	1.21	7.78
<b>HEIGHT</b>			
<b>Height</b>	1.02	0.98	1.06
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	4.25	2.06	8.78
<b>Canberra vs Brisbane</b>	1.73	0.65	4.64
<b>Ipswich vs Brisbane</b>	0.63	0.29	1.36
<b>Melbourne vs Brisbane</b>	1.08	0.44	2.63
<b>Newcastle vs Brisbane</b>	1.49	0.63	3.56
<b>Parramatta vs Brisbane</b>	0.48	0.22	1.01

**Appendix 13R : Vibration perception category, finger: Multiple linear regression  
where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
<b>Mild exposure vs Unexposed</b>	1.17	0.63	2.18
<b>Moderate exposure vs Unexposed</b>	1.66	0.95	2.88
<b>Prolonged exposure vs Unexposed</b>	1.08	0.58	1.99
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.07	0.01	0.44
<b>30-34yrs vs 60-64yrs</b>	0.02	0.00	0.14
<b>35-39yrs vs 60-64yrs</b>	0.10	0.03	0.31
<b>40-44yrs vs 60-64yrs</b>	0.16	0.06	0.39
<b>45-49yrs vs 60-64yrs</b>	0.30	0.13	0.69
<b>50-54yrs vs 60-64yrs</b>	0.47	0.21	1.06
<b>55-59yrs vs 60-64yrs</b>	0.99	0.43	2.28
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.28	0.79	2.06
<b>1985-1989 vs 1975-1979</b>	0.66	0.34	1.28
<b>1990-1994 vs 1975-1979</b>	1.64	0.75	3.61
<b>1995-1999 vs 1975-1979</b>	1.10	0.26	4.70
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	1.75	0.68	4.49
<b>Non Comm Officer vs Enlisted</b>	0.84	0.52	1.37
<b>Officer vs Enlisted</b>	1.03	0.35	3.01
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	2.15	1.25	3.69
<b>Ex smoker vs Never smoked</b>	1.64	1.04	2.59

## Appendix 13R continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.75	0.62	4.96
<b>Hazardous Drinker vs Safe Drinker</b>	1.70	1.09	2.64
<b>Moderate vs Safe Drinker</b>	1.14	0.67	1.95
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.40	0.90	2.17
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	0.71	0.39	1.28
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.95	0.93	4.08
<b>HEIGHT</b>			
<b>Height</b>	1.02	1.00	1.06
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	3.01	1.60	5.66
<b>Canberra vs Brisbane</b>	1.44	0.59	3.49
<b>Ipswich vs Brisbane</b>	0.47	0.26	0.87
<b>Melbourne vs Brisbane</b>	0.92	0.41	2.05
<b>Newcastle vs Brisbane</b>	1.14	0.52	2.47
<b>Parramatta vs Brisbane</b>	0.45	0.25	0.83
<b>Perth vs Brisbane</b>	0.23	0.05	0.99

## 13.4 VIBRATION PERCEPTION CATEGORY - TOE

Appendix 13S : Vibration perception category, toe: Multiple logistic regression  
summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.99	0.71	1.39
Richmond vs Exposed	0.81	0.59	1.12
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.01	0.00	0.02
30-34yrs vs 60-64yrs	0.01	0.00	0.03
35-39yrs vs 60-64yrs	0.02	0.01	0.05
40-44yrs vs 60-64yrs	0.03	0.01	0.09
45-49yrs vs 60-64yrs	0.09	0.04	0.23
50-54yrs vs 60-64yrs	0.15	0.06	0.38
55-59yrs vs 60-64yrs	0.35	0.14	0.93
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.37	0.96	1.94
1985-1989 vs 1975-1979	1.29	0.85	1.95
1990-1994 vs 1975-1979	1.44	0.83	2.50
1995-1999 vs 1975-1979	1.10	0.51	2.40
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.17	0.46	2.95
Non Comm Officer vs Enlisted	0.90	0.64	1.26
Officer vs Enlisted	0.82	0.35	1.93
Unknown vs Enlisted	1.96	0.58	6.65
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.66	1.16	2.38
Ex smoker vs Never smoked	1.61	1.20	2.15

Appendix 13S continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	0.65	0.28	1.50
<b>Hazardous Drinker vs Safe Drinker</b>	0.84	0.62	1.13
<b>Moderate vs Safe Drinker</b>	0.84	0.59	1.18
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.04	0.77	1.40
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.12	0.75	1.68
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.89	1.28	6.55
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.42	0.24	0.75
<b>Canberra vs Brisbane</b>	1.22	0.61	2.46
<b>Ipswich vs Brisbane</b>	0.81	0.56	1.19
<b>Melbourne vs Brisbane</b>	0.97	0.57	1.66
<b>Newcastle vs Brisbane</b>	1.07	0.59	1.93
<b>Parramatta vs Brisbane</b>	0.65	0.46	0.92
<b>Perth vs Brisbane</b>	0.40	0.19	0.81

**Appendix 13T : Vibration perception category, toe: Most parsimonious model  
obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	0.96	0.70	1.32
Richmond vs Exposed	0.80	0.58	1.09
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.01	0.00	0.02
30-34yrs vs 60-64yrs	0.01	0.00	0.03
35-39yrs vs 60-64yrs	0.03	0.01	0.06
40-44yrs vs 60-64yrs	0.04	0.02	0.10
45-49yrs vs 60-64yrs	0.10	0.04	0.25
50-54yrs vs 60-64yrs	0.16	0.07	0.41
55-59yrs vs 60-64yrs	0.35	0.14	0.91
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.62	1.14	2.29
Ex smoker vs Never smoked	1.55	1.16	2.06
<b>DIABETES</b>			
Diabetes vs No diabetes	3.11	1.39	6.93
<b>HEIGHT</b>			
Height	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
Adelaide vs Brisbane	0.41	0.23	0.73
Canberra vs Brisbane	1.15	0.58	2.30
Ipswich vs Brisbane	0.82	0.56	1.19
Melbourne vs Brisbane	0.97	0.57	1.65
Newcastle vs Brisbane	1.05	0.59	1.89
Parramatta vs Brisbane	0.65	0.46	0.92
Perth vs Brisbane	0.41	0.20	0.82

**Appendix 13U : Vibration perception category, toe: Multiple linear regression  
with confidence intervals computed using robust standard error estimates  
derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley</b>	0.99	0.72	1.36
<b>Richmond</b>	0.81	0.60	1.10
<b>Exposed</b>	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
<b>25-29yrs</b>	0.01	0.00	0.01
<b>30-34yrs</b>	0.01	0.01	0.02
<b>35-39yrs</b>	0.02	0.01	0.04
<b>40-44yrs</b>	0.03	0.02	0.07
<b>45-49yrs</b>	0.09	0.04	0.22
<b>50-54yrs</b>	0.15	0.08	0.27
<b>55-59yrs</b>	0.35	0.16	0.77
<b>60-64yrs</b>	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	1.37	1.20	1.56
<b>1985-1989</b>	1.29	1.01	1.65
<b>1990-1994</b>	1.44	1.05	1.98
<b>1995-1999</b>	1.10	0.66	1.83
<b>9975-1979</b>	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
<b>Civilian</b>	1.17	0.43	3.18
<b>Non Comm Officer</b>	0.90	0.57	1.41
<b>Officer</b>	0.82	0.47	1.45
<b>Unknown</b>	1.96	0.46	8.28
<b>Enlisted</b>	1.00	1.00	1.00
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	1.66	0.84	3.28
<b>Ex smoker</b>	1.61	1.29	2.00
<b>Never smoked</b>	1.00	1.00	1.00

Appendix 13U continued..

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKERE CATEGORY</b>			
<b>Former Hazardous</b>	0.65	0.36	1.18
<b>Hazardous Drinker</b>	0.84	0.55	1.29
<b>Moderate</b>	0.84	0.66	1.06
<b>Safe Drinker</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.04	0.86	1.26
<b>No civilian OS exposure</b>	1.00	1.00	1.00
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure</b>	1.12	0.87	1.45
<b>No civilian NT exposure</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	2.89	1.53	5.46
<b>No diabetes</b>	1.00	1.00	1.00
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	0.42	0.37	0.48
<b>Canberra</b>	1.22	1.03	1.44
<b>Ipswich</b>	0.81	0.73	0.90
<b>Melbourne</b>	0.97	0.91	1.04
<b>Newcastle</b>	1.07	0.89	1.27
<b>Parramatta</b>	0.66	0.58	0.75
<b>Perth</b>	0.39	0.35	0.43
<b>Brisbane</b>	1.00	1.00	1.00

**Appendix 13V : Vibration perception category, toe: Multiple linear regression  
where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	1.22	0.81	1.84
<b>Richmond vs Exposed</b>	1.01	0.68	1.50
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.01	0.00	0.04
<b>30-34yrs vs 60-64yrs</b>	0.01	0.00	0.04
<b>35-39yrs vs 60-64yrs</b>	0.02	0.01	0.06
<b>40-44yrs vs 60-64yrs</b>	0.03	0.01	0.09
<b>45-49yrs vs 60-64yrs</b>	0.09	0.03	0.25
<b>50-54yrs vs 60-64yrs</b>	0.13	0.05	0.37
<b>55-59yrs vs 60-64yrs</b>	0.34	0.12	0.97
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.26	0.86	1.82
<b>1985-1989 vs 1975-1979</b>	1.01	0.62	1.65
<b>1990-1994 vs 1975-1979</b>	1.07	0.54	2.13
<b>1995-1999 vs 1975-1979</b>	1.01	0.38	2.71
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	1.39	0.12	16.22
<b>Non Comm Officer vs Enlisted</b>	0.86	0.59	1.25
<b>Officer vs Enlisted</b>	0.77	0.30	1.97
<b>Unknown vs Enlisted</b>	2.21	0.57	8.59
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.66	1.11	2.50
<b>Ex smoker vs Never smoked</b>	1.58	1.14	2.19
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	0.69	0.28	1.72
<b>Hazardous Drinker vs Safe Drinker</b>	1.04	0.75	1.45
<b>Moderate vs Safe Drinker</b>	0.90	0.61	1.32

Appendix 13V continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.24	0.88	1.74
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	0.93	0.59	1.45
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	3.04	1.28	7.19
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.37	0.20	0.67
<b>Canberra vs Brisbane</b>	0.85	0.39	1.82
<b>Ipswich vs Brisbane</b>	0.65	0.41	1.03
<b>Melbourne vs Brisbane</b>	0.73	0.41	1.30
<b>Newcastle vs Brisbane</b>	0.74	0.39	1.42
<b>Parramatta vs Brisbane</b>	0.56	0.38	0.82
<b>Perth vs Brisbane</b>	0.35	0.17	0.73

**Appendix 13W : Vibration perception category, toe: Multiple linear regression  
where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.87	0.55	1.35
<b>Richmond vs Exposed</b>	0.69	0.45	1.08
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.01	0.00	0.03
<b>30-34yrs vs 60-64yrs</b>	0.01	0.00	0.04
<b>35-39yrs vs 60-64yrs</b>	0.02	0.00	0.05
<b>40-44yrs vs 60-64yrs</b>	0.03	0.01	0.11
<b>45-49yrs vs 60-64yrs</b>	0.09	0.03	0.27
<b>50-54yrs vs 60-64yrs</b>	0.16	0.05	0.50
<b>55-59yrs vs 60-64yrs</b>	0.35	0.11	1.12
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.35	0.89	2.05
<b>1985-1989 vs 1975-1979</b>	1.32	0.83	2.11
<b>1990-1994 vs 1975-1979</b>	1.31	0.71	2.43
<b>1995-1999 vs 1975-1979</b>	1.08	0.42	2.82
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	1.44	0.50	4.17
<b>Non Comm Officer vs Enlisted</b>	0.77	0.52	1.14
<b>Officer vs Enlisted</b>	0.77	0.28	2.11
<b>Unknown vs Enlisted</b>	0.91	0.09	9.62
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.76	1.17	2.65
<b>Ex smoker vs Never smoked</b>	1.57	1.12	2.19
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	0.62	0.22	1.74
<b>Hazardous Drinker vs Safe Drinker</b>	1.04	0.74	1.46
<b>Moderate vs Safe Drinker</b>	0.90	0.60	1.34
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	0.99	0.69	1.42

Appendix 13W continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.14	0.71	1.81
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.47	0.96	6.33
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.12	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.52	0.27	0.99
<b>Canberra vs Brisbane</b>	1.17	0.54	2.52
<b>Ipswich vs Brisbane</b>	0.66	0.42	1.05
<b>Melbourne vs Brisbane</b>	1.09	0.60	1.95
<b>Newcastle vs Brisbane</b>	1.09	0.57	2.08
<b>Parramatta vs Brisbane</b>	0.74	0.50	1.10
<b>Perth vs Brisbane</b>	0.45	0.20	0.99

**Appendix 13X : Vibration perception category, toe: Multiple linear regression  
where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
Mild exposure vs Unexposed	1.14	0.74	1.75
Moderate exposure vs Unexposed	1.13	0.74	1.72
Prolonged exposure vs Unexposed	1.08	0.71	1.63
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.01	0.00	0.03
30-34yrs vs 60-64yrs	0.01	0.00	0.03
35-39yrs vs 60-64yrs	0.02	0.01	0.05
40-44yrs vs 60-64yrs	0.03	0.01	0.08
45-49yrs vs 60-64yrs	0.08	0.03	0.22
50-54yrs vs 60-64yrs	0.13	0.05	0.35
55-59yrs vs 60-64yrs	0.33	0.12	0.92
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.30	0.91	1.87
1985-1989 vs 1975-1979	1.23	0.81	1.86
1990-1994 vs 1975-1979	1.40	0.79	2.46
1995-1999 vs 1975-1979	0.95	0.42	2.15
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.42	0.52	3.87
Non Comm Officer vs Enlisted	0.90	0.64	1.27
Officer vs Enlisted	0.81	0.34	1.93
Unknown vs Enlisted	1.83	0.53	6.29
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.69	1.18	2.44
Ex smoker vs Never smoked	1.61	1.20	2.17

Appendix 13X continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	0.74	0.31	1.80
<b>Hazardous Drinker vs Safe Drinker</b>	0.93	0.68	1.25
<b>Moderate vs Safe Drinker</b>	0.87	0.62	1.24
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.04	0.77	1.42
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.12	0.74	1.70
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.94	1.30	6.68
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.43	0.24	0.77
<b>Canberra vs Brisbane</b>	1.14	0.56	2.36
<b>Ipswich vs Brisbane</b>	0.76	0.51	1.12
<b>Melbourne vs Brisbane</b>	0.96	0.55	1.65
<b>Newcastle vs Brisbane</b>	1.08	0.59	1.96
<b>Parramatta vs Brisbane</b>	0.65	0.46	0.93
<b>Perth vs Brisbane</b>	0.40	0.19	0.82

## 13.5 ANY SELF-REPORTED MOTOR SYMPTOMS

Appendix 13Y : Any self-reported motor symptom: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.42	0.30	0.59
Richmond vs Exposed	0.34	0.25	0.48
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.07	0.02	0.28
30-34yrs vs 60-64yrs	0.13	0.05	0.33
35-39yrs vs 60-64yrs	0.27	0.12	0.59
40-44yrs vs 60-64yrs	0.34	0.17	0.70
45-49yrs vs 60-64yrs	0.43	0.22	0.84
50-54yrs vs 60-64yrs	0.54	0.27	1.09
55-59yrs vs 60-64yrs	0.64	0.30	1.33
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.42	0.99	2.03
1985-1989 vs 1975-1979	1.36	0.90	2.06
1990-1994 vs 1975-1979	1.67	0.97	2.89
1995-1999 vs 1975-1979	1.20	0.53	2.73
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.82	0.35	1.89
Non Comm Officer vs Enlisted	0.94	0.67	1.33
Officer vs Enlisted	0.67	0.28	1.59
Unknown vs Enlisted	2.35	0.86	6.41
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.46	1.03	2.09
Ex smoker vs Never smoked	0.90	0.66	1.23

Appendix 13Y continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.90	0.91	3.97
<b>Hazardous Drinker vs Safe Drinker</b>	1.20	0.88	1.62
<b>Moderate vs Safe Drinker</b>	0.88	0.61	1.27
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.05	0.78	1.41
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.47	0.99	2.18
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.86	0.99	3.51
<b>HEIGHT</b>			
<b>Height</b>	0.99	0.97	1.01

**Appendix 13Z : Any self-reported motor symptom: Most parsimonious model  
obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.37	0.27	0.50
<b>Richmond vs Exposed</b>	0.34	0.25	0.45
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.08	0.03	0.22
<b>30-34yrs vs 60-64yrs</b>	0.14	0.07	0.27
<b>35-39yrs vs 60-64yrs</b>	0.27	0.14	0.49
<b>40-44yrs vs 60-64yrs</b>	0.31	0.18	0.56
<b>45-49yrs vs 60-64yrs</b>	0.39	0.22	0.69
<b>50-54yrs vs 60-64yrs</b>	0.47	0.26	0.86
<b>55-59yrs vs 60-64yrs</b>	0.60	0.31	1.16
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.56	1.13	2.14
<b>Ex smoker vs Never smoked</b>	1.00	0.76	1.33

**Appendix 13AA : Any self-reported motor symptom: Multiple linear regression  
with confidence intervals computed using robust standard error estimates  
derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley	0.99	0.72	1.36
Richmond	0.81	0.60	1.10
Exposed	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
25-29yrs	0.01	0.00	0.01
30-34yrs	0.01	0.01	0.02
35-39yrs	0.02	0.01	0.04
40-44yrs	0.03	0.02	0.07
45-49yrs	0.09	0.04	0.22
50-54yrs	0.15	0.08	0.27
55-59yrs	0.35	0.16	0.77
60-64yrs	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
1980-1984	1.37	1.20	1.56
1985-1989	1.29	1.01	1.65
1990-1994	1.44	1.05	1.98
1995-1999	1.10	0.66	1.83
9975-1979	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
Civilian	1.17	0.43	3.18
Non Comm Officer	0.90	0.57	1.41
Officer	0.82	0.47	1.45
Unknown	1.96	0.46	8.28
Enlisted	1.00	1.00	1.00
<b>SMOKER CATEGORY</b>			
Current smoker	1.66	0.84	3.28
Ex smoker	1.61	1.29	2.00
Never smoked	1.00	1.00	1.00

Appendix 13AA continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous</b>	0.65	0.36	1.18
<b>Hazardous Drinker</b>	0.84	0.55	1.29
<b>Moderate</b>	0.84	0.66	1.06
<b>Safe Drinker</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.04	0.86	1.26
<b>No civilian OS exposure</b>	1.00	1.00	1.00
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure</b>	1.12	0.87	1.45
<b>No civilian NT exposure</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	2.89	1.53	5.46
<b>No diabetes</b>	1.00	1.00	1.00
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	0.42	0.37	0.48
<b>Canberra</b>	1.22	1.03	1.44
<b>Ipswich</b>	0.81	0.73	0.90
<b>Melbourne</b>	0.97	0.91	1.04
<b>Newcastle</b>	1.07	0.89	1.27
<b>Parramatta</b>	0.66	0.58	0.75
<b>Perth</b>	0.39	0.35	0.43
<b>Brisbane</b>	1.00	1.00	1.00

**Appendix 13BB : Any self-reported motor symptoms: Multiple linear regression  
where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	0.39	0.26	0.59
Richmond vs Exposed	0.33	0.22	0.48
<b>AGE CATEGORY</b>			
14-34yrs vs 60-64yrs	0.08	0.02	0.27
35-39yrs vs 60-64yrs	0.30	0.12	0.74
40-44yrs vs 60-64yrs	0.36	0.16	0.81
45-49yrs vs 60-64yrs	0.48	0.23	1.03
50-54yrs vs 60-64yrs	0.54	0.25	1.18
55-59yrs vs 60-64yrs	0.73	0.33	1.64
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.41	0.96	2.06
1985-1989 vs 1975-1979	1.59	0.96	2.65
1990-1994 vs 1975-1979	1.91	0.93	3.95
1995-1999 vs 1975-1979	0.81	0.22	2.99
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.12	0.13	9.51
Non Comm Officer vs Enlisted	0.95	0.64	1.41
Officer vs Enlisted	0.48	0.16	1.39
Unknown vs Enlisted	2.87	0.91	9.09
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.52	1.00	2.30
Ex smoker vs Never smoked	0.97	0.68	1.38
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	1.61	0.69	3.74
Hazardous Drinker vs Safe Drinker	1.34	0.95	1.89
Moderate vs Safe Drinker	0.93	0.61	1.43
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	0.88	0.62	1.26

Appendix 13BB continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.36	0.87	2.12
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.10	1.07	4.13
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.02

**Appendix 13CC : Any self-reported motor symptoms : Multiple linear regression  
where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	0.39	0.25	0.61
Richmond vs Exposed	0.32	0.21	0.49
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.03	0.00	0.31
30-34yrs vs 60-64yrs	0.20	0.07	0.59
35-39yrs vs 60-64yrs	0.29	0.11	0.79
40-44yrs vs 60-64yrs	0.45	0.18	1.10
45-49yrs vs 60-64yrs	0.59	0.25	1.39
50-54yrs vs 60-64yrs	0.64	0.26	1.59
55-59yrs vs 60-64yrs	0.94	0.37	2.40
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.20	0.77	1.88
1985-1989 vs 1975-1979	1.09	0.66	1.78
1990-1994 vs 1975-1979	1.66	0.88	3.10
1995-1999 vs 1975-1979	0.91	0.28	3.00
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.87	0.33	2.30
Non Comm Officer vs Enlisted	0.87	0.58	1.32
Officer vs Enlisted	0.58	0.18	1.88
Unknown vs Enlisted	0.97	0.17	5.55
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.96	1.30	2.97
Ex smoker vs Never smoked	0.94	0.65	1.38
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	2.10	0.84	5.23
Hazardous Drinker vs Safe Drinker	1.22	0.85	1.76
Moderate vs Safe Drinker	0.92	0.59	1.45
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.07	0.73	1.56

Appendix 13CC continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.57	0.98	2.52
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.51	0.67	3.38
<b>HEIGHT</b>			
<b>Height</b>	1.01	0.98	1.03

**Appendix 13DD : Any self-reported motor symptoms: Multiple linear regression  
where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
<b>Mild exposure vs Unexposed</b>	2.41	1.59	3.65
<b>Moderate exposure vs Unexposed</b>	2.39	1.61	3.56
<b>Prolonged exposure vs Unexposed</b>	3.20	2.19	4.66
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.07	0.02	0.33
<b>30-34yrs vs 60-64yrs</b>	0.18	0.07	0.45
<b>35-39yrs vs 60-64yrs</b>	0.32	0.14	0.72
<b>40-44yrs vs 60-64yrs</b>	0.42	0.20	0.88
<b>45-49yrs vs 60-64yrs</b>	0.52	0.26	1.04
<b>50-54yrs vs 60-64yrs</b>	0.58	0.28	1.19
<b>55-59yrs vs 60-64yrs</b>	0.69	0.32	1.48
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.31	0.91	1.89
<b>1985-1989 vs 1975-1979</b>	1.22	0.79	1.87
<b>1990-1994 vs 1975-1979</b>	1.58	0.89	2.80
<b>1995-1999 vs 1975-1979</b>	1.06	0.44	2.55
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	0.86	0.34	2.19
<b>Non Comm Officer vs Enlisted</b>	0.98	0.69	1.40
<b>Officer vs Enlisted</b>	0.77	0.32	1.85
<b>Unknown vs Enlisted</b>	2.18	0.78	6.09
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.50	1.05	2.16
<b>Ex smoker vs Never smoked</b>	0.89	0.65	1.22

Appendix 13DD continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	2.12	0.98	4.60
<b>Hazardous Drinker vs Safe Drinker</b>	1.25	0.91	1.70
<b>Moderate vs Safe Drinker</b>	0.98	0.67	1.42
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.03	0.76	1.40
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.46	0.97	2.19
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.85	0.97	3.50
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.02

## 13.6 ANY SELF-REPORTED SENSORY SYMPTOMS

Appendix 13EE : Any self-reported sensory symptoms: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.52	0.39	0.68
Richmond vs Exposed	0.49	0.38	0.64
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.15	0.05	0.42
30-34yrs vs 60-64yrs	0.35	0.15	0.78
35-39yrs vs 60-64yrs	0.48	0.23	1.02
40-44yrs vs 60-64yrs	0.52	0.26	1.04
45-49yrs vs 60-64yrs	0.63	0.32	1.24
50-54yrs vs 60-64yrs	0.86	0.43	1.72
55-59yrs vs 60-64yrs	0.73	0.35	1.50
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.16	0.85	1.58
1985-1989 vs 1975-1979	0.86	0.60	1.23
1990-1994 vs 1975-1979	1.36	0.86	2.16
1995-1999 vs 1975-1979	1.08	0.58	2.04
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.13	0.50	2.52
Non Comm Officer vs Enlisted	0.78	0.58	1.04
Officer vs Enlisted	0.53	0.26	1.08
Unknown vs Enlisted	0.78	0.29	2.10
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.67	1.23	2.27
Ex smoker vs Never smoked	1.17	0.91	1.50

Appendix 13EE continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.21	0.60	2.43
<b>Hazardous Drinker vs Safe Drinker</b>	1.10	0.85	1.41
<b>Moderate vs Safe Drinker</b>	1.02	0.76	1.36
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.13	0.87	1.45
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.19	0.84	1.69
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.30	1.19	4.44
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.01

**Appendix 13FF : Any self-reported sensory symptom: Most parsimonious model  
obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Amberley vs Exposed	0.46	0.35	0.59
Richmond vs Exposed	0.47	0.37	0.60
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.19	0.09	0.42
30-34yrs vs 60-64yrs	0.29	0.15	0.56
35-39yrs vs 60-64yrs	0.46	0.25	0.86
40-44yrs vs 60-64yrs	0.52	0.29	0.95
45-49yrs vs 60-64yrs	0.62	0.35	1.12
50-54yrs vs 60-64yrs	0.88	0.48	1.62
55-59yrs vs 60-64yrs	0.78	0.41	1.49
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	1.24	0.59	2.60
Non Comm Officer vs Enlisted	0.74	0.57	0.95
Officer vs Enlisted	0.46	0.24	0.86
Unknown vs Enlisted	0.85	0.32	2.22
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.77	1.34	2.34
Ex smoker vs Never smoked	1.22	0.97	1.54

**Appendix 13GG : Any self-reported sensory symptom: Multiple linear regression  
with confidence intervals computed using robust standard error estimates  
derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley</b>	0.99	0.72	1.36
<b>Richmond</b>	0.81	0.60	1.10
<b>Exposed</b>	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
<b>25-29yrs</b>	0.01	0.00	0.01
<b>30-34yrs</b>	0.01	0.01	0.02
<b>35-39yrs</b>	0.02	0.01	0.04
<b>40-44yrs</b>	0.03	0.02	0.07
<b>45-49yrs</b>	0.09	0.04	0.22
<b>50-54yrs</b>	0.15	0.08	0.27
<b>55-59yrs</b>	0.35	0.16	0.77
<b>60-64yrs</b>	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	1.37	1.20	1.56
<b>1985-1989</b>	1.29	1.01	1.65
<b>1990-1994</b>	1.44	1.05	1.98
<b>1995-1999</b>	1.10	0.66	1.83
<b>9975-1979</b>	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
<b>Civilian</b>	1.17	0.43	3.18
<b>Non Comm Officer</b>	0.90	0.57	1.41
<b>Officer</b>	0.82	0.47	1.45
<b>Unknown</b>	1.96	0.46	8.28
<b>Enlisted</b>	1.00	1.00	1.00
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	1.66	0.84	3.28
<b>Ex smoker</b>	1.61	1.29	2.00
<b>Never smoked</b>	1.00	1.00	1.00

Appendix 13GG continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKERE CATEGORY</b>			
<b>Former Hazardous</b>	0.65	0.36	1.18
<b>Hazardous Drinker</b>	0.84	0.55	1.29
<b>Moderate</b>	0.84	0.66	1.06
<b>Safe Drinker</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.04	0.86	1.26
<b>No civilian OS exposure</b>	1.00	1.00	1.00
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure</b>	1.12	0.87	1.45
<b>No civilian NT exposure</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	2.89	1.53	5.46
<b>No diabetes</b>	1.00	1.00	1.00
<b>HEIGHT</b>			
<b>Height</b>	1.15	1.13	1.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	0.42	0.37	0.48
<b>Canberra</b>	1.22	1.03	1.44
<b>Ipswich</b>	0.81	0.73	0.90
<b>Melbourne</b>	0.97	0.91	1.04
<b>Newcastle</b>	1.07	0.89	1.27
<b>Parramatta</b>	0.66	0.58	0.75
<b>Perth</b>	0.39	0.35	0.43
<b>Brisbane</b>	1.00	1.00	1.00

**Appendix 13HH : Any self-reported sensory symptoms: Multiple linear regression  
where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.46	0.32	0.66
<b>Richmond vs Exposed</b>	0.44	0.32	0.62
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.20	0.06	0.73
<b>30-34yrs vs 60-64yrs</b>	0.25	0.09	0.64
<b>35-39yrs vs 60-64yrs</b>	0.41	0.18	0.95
<b>40-44yrs vs 60-64yrs</b>	0.45	0.21	0.97
<b>45-49yrs vs 60-64yrs</b>	0.60	0.29	1.24
<b>50-54yrs vs 60-64yrs</b>	0.78	0.37	1.65
<b>55-59yrs vs 60-64yrs</b>	0.71	0.32	1.56
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.24	0.89	1.72
<b>1985-1989 vs 1975-1979</b>	1.07	0.70	1.62
<b>1990-1994 vs 1975-1979</b>	1.46	0.82	2.60
<b>1995-1999 vs 1975-1979</b>	1.01	0.45	2.28
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	1.23	0.12	12.99
<b>Non Comm Officer vs Enlisted</b>	0.74	0.53	1.03
<b>Officer vs Enlisted</b>	0.43	0.19	0.97
<b>Unknown vs Enlisted</b>	0.62	0.21	1.87
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.87	1.32	2.65
<b>Ex smoker vs Never smoked</b>	1.25	0.95	1.66
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.11	0.51	2.41
<b>Hazardous Drinker vs Safe Drinker</b>	1.07	0.81	1.43
<b>Moderate vs Safe Drinker</b>	0.97	0.69	1.36
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.13	0.84	1.52

Appendix 13HH continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.21	0.82	1.77
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.26	1.13	4.50
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.02

**Appendix 13II : Any self-reported sensory symptoms: Multiple linear regression  
where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.53	0.36	0.77
<b>Richmond vs Exposed</b>	0.50	0.35	0.71
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.12	0.04	0.41
<b>30-34yrs vs 60-64yrs</b>	0.28	0.11	0.74
<b>35-39yrs vs 60-64yrs</b>	0.35	0.14	0.86
<b>40-44yrs vs 60-64yrs</b>	0.40	0.17	0.93
<b>45-49yrs vs 60-64yrs</b>	0.48	0.21	1.08
<b>50-54yrs vs 60-64yrs</b>	0.72	0.31	1.67
<b>55-59yrs vs 60-64yrs</b>	0.46	0.19	1.10
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.22	0.85	1.76
<b>1985-1989 vs 1975-1979</b>	0.85	0.56	1.27
<b>1990-1994 vs 1975-1979</b>	1.47	0.87	2.47
<b>1995-1999 vs 1975-1979</b>	1.11	0.51	2.40
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	1.19	0.46	3.09
<b>Non Comm Officer vs Enlisted</b>	0.73	0.52	1.02
<b>Officer vs Enlisted</b>	0.59	0.25	1.37
<b>Unknown vs Enlisted</b>	0.45	0.08	2.52
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.69	1.19	2.40
<b>Ex smoker vs Never smoked</b>	1.23	0.92	1.64
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.15	0.50	2.64
<b>Hazardous Drinker vs Safe Drinker</b>	1.17	0.88	1.56
<b>Moderate vs Safe Drinker</b>	1.17	0.83	1.64

Appendix 13II continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.10	0.81	1.49
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.33	0.89	1.98
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.60	0.76	3.35
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.02

**Appendix 13JJ : Any self-reported sensory symptoms: Multiple linear regression  
where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
<b>Mild exposure vs Unexposed</b>	1.89	1.31	2.72
<b>Moderate exposure vs Unexposed</b>	2.12	1.49	3.03
<b>Prolonged exposure vs Unexposed</b>	2.13	1.50	3.01
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.14	0.05	0.41
<b>30-34yrs vs 60-64yrs</b>	0.33	0.14	0.77
<b>35-39yrs vs 60-64yrs</b>	0.42	0.20	0.92
<b>40-44yrs vs 60-64yrs</b>	0.49	0.24	1.01
<b>45-49yrs vs 60-64yrs</b>	0.60	0.30	1.18
<b>50-54yrs vs 60-64yrs</b>	0.80	0.40	1.63
<b>55-59yrs vs 60-64yrs</b>	0.67	0.32	1.40
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.19	0.87	1.63
<b>1985-1989 vs 1975-1979</b>	0.90	0.63	1.29
<b>1990-1994 vs 1975-1979</b>	1.45	0.89	2.34
<b>1995-1999 vs 1975-1979</b>	1.14	0.59	2.20
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	0.99	0.40	2.43
<b>Non Comm Officer vs Enlisted</b>	0.74	0.55	1.00
<b>Officer vs Enlisted</b>	0.56	0.27	1.16
<b>Unknown vs Enlisted</b>	0.68	0.24	1.89
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.70	1.24	2.33
<b>Ex smoker vs Never smoked</b>	1.15	0.89	1.49

Appendix 13JJ continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.17	0.56	2.42
<b>Hazardous Drinker vs Safe Drinker</b>	1.11	0.86	1.43
<b>Moderate vs Safe Drinker</b>	1.07	0.79	1.45
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.11	0.85	1.44
<b>NT EXPOSURE</b>			
<b>Civilian NT exposure vs No civilian NT exposure</b>	1.26	0.88	1.81
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	2.28	1.18	4.40
<b>HEIGHT</b>			
<b>Height</b>	1.00	0.98	1.01

## 13.7 COLOUR VISION ABNORMAL CCI

Appendix 13KK : Colour vision abnormal CCI : Multiple linear regression  
summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Richmond vs Exposed	0.74	0.55	1.02
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.13	0.04	0.51
30-34yrs vs 60-64yrs	0.10	0.03	0.31
35-39yrs vs 60-64yrs	0.10	0.04	0.29
40-44yrs vs 60-64yrs	0.22	0.08	0.58
45-49yrs vs 60-64yrs	0.20	0.08	0.50
50-54yrs vs 60-64yrs	0.22	0.09	0.58
55-59yrs vs 60-64yrs	0.37	0.14	1.01
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.95	0.64	1.41
1985-1989 vs 1975-1979	0.79	0.50	1.25
1990-1994 vs 1975-1979	0.89	0.48	1.64
1995-1999 vs 1975-1979	0.73	0.31	1.73
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.51	0.18	1.40
Non Comm Officer vs Enlisted	1.01	0.70	1.47
Officer vs Enlisted	0.72	0.30	1.74
Unknown vs Enlisted	2.18	0.63	7.51
<b>VISUAL ACUITY*</b>			
10 vs 0	0.86	0.57	1.32
20 vs 0	1.51	0.67	3.37
30 vs 0	1.00	0.42	2.34

\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13KK continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.24	0.47	3.26
<b>Hazardous Drinker vs Safe Drinker</b>	0.86	0.62	1.19
<b>Moderate vs Safe Drinker</b>	0.78	0.54	1.14
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.17	0.86	1.58
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.69	0.68	4.18
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.31	0.73	2.34
<b>Canberra vs Brisbane</b>	1.30	0.63	2.67
<b>Ipswich vs Brisbane</b>	0.61	0.40	0.94
<b>Melbourne vs Brisbane</b>	0.25	0.07	0.87
<b>Newcastle vs Brisbane</b>	3.39	1.86	6.18
<b>Parramatta vs Brisbane</b>	1.52	1.04	2.24
<b>Perth vs Brisbane</b>	0.56	0.23	1.33

**Appendix 13LL : Colour vision abnormal CCI: Most parsimonious model obtained  
by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Richmond vs Exposed</b>	0.73	0.54	0.98
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.09	0.03	0.25
<b>30-34yrs vs 60-64yrs</b>	0.07	0.03	0.17
<b>35-39yrs vs 60-64yrs</b>	0.08	0.03	0.20
<b>40-44yrs vs 60-64yrs</b>	0.19	0.08	0.44
<b>45-49yrs vs 60-64yrs</b>	0.17	0.07	0.40
<b>50-54yrs vs 60-64yrs</b>	0.20	0.08	0.49
<b>55-59yrs vs 60-64yrs</b>	0.33	0.13	0.84
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.27	0.71	2.26
<b>Canberra vs Brisbane</b>	1.27	0.62	2.58
<b>Ipswich vs Brisbane</b>	0.60	0.39	0.91
<b>Melbourne vs Brisbane</b>	0.26	0.08	0.92
<b>Newcastle vs Brisbane</b>	3.25	1.80	5.89
<b>Parramatta vs Brisbane</b>	1.51	1.04	2.18
<b>Perth vs Brisbane</b>	0.56	0.24	1.31

**Appendix 13MM : Colour vision abnormal CCI: Multiple logistic regression with confidence intervals computed using robust standard error estimates derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Richmond	0.74	0.60	0.92
Exposed	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
25-29yrs	0.13	0.07	0.24
30-34yrs	0.10	0.06	0.18
35-39yrs	0.10	0.07	0.16
40-44yrs	0.22	0.14	0.36
45-49yrs	0.20	0.11	0.33
50-54yrs	0.22	0.16	0.32
55-59yrs	0.37	0.21	0.67
60-64yrs	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
1980-1984	0.95	0.75	1.20
1985-1989	0.79	0.54	1.16
1990-1994	0.89	0.64	1.22
1995-1999	0.73	0.43	1.24
1975-1979	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
Civilian	0.51	0.37	0.70
Non Comm Officer	1.01	0.72	1.42
Officer	0.72	0.25	2.12
Unknown	2.18	1.20	3.97
Enlisted	1.00	1.00	1.00
<b>VISUAL ACUITY*</b>			
10	0.86	0.70	1.07
20	1.51	0.92	2.47
30	1.00	0.53	1.88
0	1.00	1.00	1.00

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13MM continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous</b>	1.24	0.51	3.02
<b>Hazardous Drinker</b>	0.86	0.59	1.26
<b>Moderate</b>	0.78	0.64	0.96
<b>Safe Drinker</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.17	0.94	1.46
<b>No civilian OS exposure</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	1.66	0.45	6.39
<b>No diabetes</b>	1.00	1.00	1.00
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	1.30	1.19	1.43
<b>Canberra</b>	1.29	1.12	1.49
<b>Ipswich</b>	0.61	0.55	0.68
<b>Melbourne</b>	0.25	0.23	0.27
<b>Newcastle</b>	3.37	3.13	3.62
<b>Parramatta</b>	1.50	1.38	1.63
<b>Perth</b>	0.56	0.50	0.63
<b>Brisbane</b>	1.00	1.00	1.00

**Appendix 13NN : Colour vision abnormal CCI: Multiple logistic regression where  
the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Richmond vs Exposed	0.83	0.56	1.22
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.10	0.01	0.73
30-34yrs vs 60-64yrs	0.06	0.01	0.24
35-39yrs vs 60-64yrs	0.08	0.02	0.27
40-44yrs vs 60-64yrs	0.21	0.07	0.61
45-49yrs vs 60-64yrs	0.19	0.07	0.54
50-54yrs vs 60-64yrs	0.26	0.09	0.73
55-59yrs vs 60-64yrs	0.32	0.11	0.94
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.05	0.69	1.60
1985-1989 vs 1975-1979	0.99	0.56	1.75
1990-1994 vs 1975-1979	1.40	0.60	3.27
1995-1999 vs 1975-1979	0.41	0.09	1.93
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.56	0.05	5.83
Non Comm Officer vs Enlisted	0.90	0.59	1.39
Officer vs Enlisted	0.68	0.25	1.90
Unknown vs Enlisted	1.68	0.44	6.36
<b>VISUAL ACUITY*</b>			
10 vs 0	0.80	0.50	1.28
20 vs 0	1.90	0.76	4.74
30 vs 0	0.87	0.36	2.09
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	2.24	0.73	6.86
Hazardous Drinker vs Safe Drinker	1.06	0.72	1.55
Moderate vs Safe Drinker	0.93	0.60	1.45

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13NN continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.10	0.77	1.57
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.86	0.70	4.89
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.35	0.71	2.55
<b>Canberra vs Brisbane</b>	0.93	0.41	2.14
<b>Ipswich vs Brisbane</b>	0.70	0.40	1.22
<b>Melbourne vs Brisbane</b>	0.18	0.04	0.81
<b>Newcastle vs Brisbane</b>	2.73	1.38	5.38
<b>Parramatta vs Brisbane</b>	1.44	0.93	2.23
<b>Perth vs Brisbane</b>	0.37	0.14	0.97

**Appendix 1300 : Colour vision abnormal CCI: Multiple logistic regression where  
the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Richmond vs Exposed	0.83	0.54	1.30
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.15	0.03	0.76
30-34yrs vs 60-64yrs	0.08	0.02	0.32
35-39yrs vs 60-64yrs	0.11	0.03	0.37
40-44yrs vs 60-64yrs	0.24	0.08	0.76
45-49yrs vs 60-64yrs	0.23	0.08	0.70
50-54yrs vs 60-64yrs	0.31	0.10	0.96
55-59yrs vs 60-64yrs	0.39	0.12	1.34
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	1.23	0.75	2.02
1985-1989 vs 1975-1979	0.92	0.54	1.57
1990-1994 vs 1975-1979	1.00	0.48	2.09
1995-1999 vs 1975-1979	0.60	0.17	2.15
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.62	0.20	1.92
Non Comm Officer vs Enlisted	1.03	0.66	1.62
Officer vs Enlisted	0.77	0.25	2.40
Unknown vs Enlisted	2.88	0.26	31.60
<b>VISUAL ACUITY*</b>			
10 vs 0	0.75	0.44	1.27
20 vs 0	1.57	0.59	4.22
30 vs 0	0.94	0.36	2.46
<b>DRINKER CATEGORY</b>			
Former Hazardous vs Safe Drinker	0.92	0.23	3.72
Hazardous Drinker vs Safe Drinker	0.97	0.66	1.44
Moderate vs Safe Drinker	0.71	0.44	1.13

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 1300 continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.11	0.76	1.62
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.02	0.30	3.47
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.41	0.70	2.83
<b>Canberra vs Brisbane</b>	1.20	0.52	2.74
<b>Ipswich vs Brisbane</b>	0.78	0.44	1.38
<b>Melbourne vs Brisbane</b>	0.32	0.09	1.14
<b>Newcastle vs Brisbane</b>	2.62	1.32	5.21
<b>Parramatta vs Brisbane</b>	1.55	0.97	2.48
<b>Perth vs Brisbane</b>	0.74	0.26	2.09

**Appendix 13PP : Colour vision abnormal CCI: Multiple logistic regression where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
Mild exposure vs Unexposed	0.84	0.53	1.34
Moderate exposure vs Unexposed	1.54	1.01	2.35
Prolonged exposure vs Unexposed	1.54	1.00	2.37
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.13	0.03	0.54
30-34yrs vs 60-64yrs	0.09	0.03	0.28
35-39yrs vs 60-64yrs	0.09	0.03	0.28
40-44yrs vs 60-64yrs	0.21	0.08	0.56
45-49yrs vs 60-64yrs	0.19	0.07	0.49
50-54yrs vs 60-64yrs	0.22	0.09	0.59
55-59yrs vs 60-64yrs	0.39	0.14	1.09
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.96	0.64	1.44
1985-1989 vs 1975-1979	0.78	0.49	1.26
1990-1994 vs 1975-1979	1.13	0.59	2.17
1995-1999 vs 1975-1979	0.69	0.27	1.78
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.41	0.13	1.25
Non Comm Officer vs Enlisted	1.00	0.68	1.46
Officer vs Enlisted	0.58	0.22	1.52
Unknown vs Enlisted	1.99	0.56	7.10
<b>VISUAL ACUITY*</b>			
10 vs 0	0.87	0.57	1.34
20 vs 0	1.64	0.71	3.77
30 vs 0	0.96	0.41	2.25

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13PP continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.12	0.39	3.24
<b>Hazardous Drinker vs Safe Drinker</b>	0.93	0.67	1.30
<b>Moderate vs Safe Drinker</b>	0.79	0.53	1.17
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.24	0.91	1.70
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.66	0.67	4.14
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.30	0.72	2.37
<b>Canberra vs Brisbane</b>	1.17	0.55	2.51
<b>Ipswich vs Brisbane</b>	0.55	0.35	0.87
<b>Melbourne vs Brisbane</b>	0.23	0.07	0.80
<b>Newcastle vs Brisbane</b>	3.01	1.62	5.59
<b>Parramatta vs Brisbane</b>	1.51	1.01	2.24
<b>Perth vs Brisbane</b>	0.46	0.18	1.16

## 13.8 COLOUR VISION CLINICAL DIAGNOSIS

Appendix 13QQ : Colour vision clinical diagnosis : Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Richmond vs Exposed	0.79	0.58	1.06
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.12	0.03	0.49
30-34yrs vs 60-64yrs	0.13	0.04	0.46
35-39yrs vs 60-64yrs	0.13	0.04	0.43
40-44yrs vs 60-64yrs	0.21	0.07	0.68
45-49yrs vs 60-64yrs	0.19	0.06	0.60
50-54yrs vs 60-64yrs	0.24	0.07	0.76
55-59yrs vs 60-64yrs	0.39	0.12	1.34
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.94	0.63	1.38
1985-1989 vs 1975-1979	0.77	0.50	1.20
1990-1994 vs 1975-1979	0.97	0.54	1.72
1995-1999 vs 1975-1979	0.63	0.29	1.37
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.60	0.25	1.46
Non Comm Officer vs Enlisted	0.85	0.59	1.21
Officer vs Enlisted	1.76	0.73	4.23
Unknown vs Enlisted	1.33	0.35	5.13
<b>VISUAL ACUITY*</b>			
10 vs 0	1.01	0.67	1.52
20 vs 0	2.03	0.82	5.00
30 vs 0	1.41	0.55	3.62

\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13QQ continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.19	0.45	3.14
<b>Hazardous Drinker vs Safe Drinker</b>	0.87	0.63	1.18
<b>Moderate vs Safe Drinker</b>	0.78	0.55	1.11
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.19	0.89	1.59
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.38	0.52	3.66
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.97	0.55	1.70
<b>Canberra vs Brisbane</b>	1.09	0.54	2.22
<b>Ipswich vs Brisbane</b>	0.59	0.40	0.88
<b>Melbourne vs Brisbane</b>	0.55	0.23	1.30
<b>Newcastle vs Brisbane</b>	3.09	1.59	5.97
<b>Parramatta vs Brisbane</b>	1.28	0.88	1.86
<b>Perth vs Brisbane</b>	1.07	0.49	2.30

**Appendix 13RR : Colour vision clinical diagnosis: Most parsimonious model  
obtained by stepwise regression for all exposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Richmond vs Exposed</b>	0.77	0.57	1.02
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.07	0.02	0.25
<b>30-34yrs vs 60-64yrs</b>	0.09	0.03	0.26
<b>35-39yrs vs 60-64yrs</b>	0.10	0.03	0.30
<b>40-44yrs vs 60-64yrs</b>	0.18	0.06	0.52
<b>45-49yrs vs 60-64yrs</b>	0.16	0.06	0.49
<b>50-54yrs vs 60-64yrs</b>	0.20	0.06	0.60
<b>55-59yrs vs 60-64yrs</b>	0.34	0.10	1.09
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.96	0.55	1.66
<b>Canberra vs Brisbane</b>	1.15	0.57	2.32
<b>Ipswich vs Brisbane</b>	0.56	0.38	0.83
<b>Melbourne vs Brisbane</b>	0.57	0.24	1.33
<b>Newcastle vs Brisbane</b>	3.04	1.58	5.86
<b>Parramatta vs Brisbane</b>	1.34	0.93	1.92
<b>Perth vs Brisbane</b>	1.04	0.48	1.24

**Appendix 13SS : Colour vision clinical diagnosis: Multiple logistic regression  
with confidence intervals computed using robust standard error estimates  
derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
Richmond	0.79	0.70	0.88
Exposed (reference)	1.00	1.00	1.00
<b>AGE CATEGORY</b>			
25-29yrs	0.12	0.06	0.22
30-34yrs	0.13	0.06	0.27
35-39yrs	0.13	0.08	0.20
40-44yrs	0.21	0.13	0.35
45-49yrs	0.19	0.13	0.29
50-54yrs	0.24	0.11	0.52
55-59yrs	0.39	0.18	0.85
60-64yrs (reference)	1.00	1.00	1.00
<b>POSTING CATEGORY</b>			
1980-1984	0.94	0.76	1.16
1985-1989	0.77	0.50	1.19
1990-1994	0.97	0.49	1.90
1995-1999	0.63	0.41	0.96
1975-1979 (reference)	1.00	1.00	1.00
<b>RANK CATEGORY</b>			
Civilian	0.60	0.29	1.26
Non Comm Officer	0.85	0.59	1.22
Officer	1.76	1.13	2.74
Unknown	1.33	0.62	2.88
Enlisted (reference)	1.00	1.00	1.00
<b>VISUAL ACUITY*</b>			
10	1.01	0.81	1.25
20	2.03	0.89	4.64
30	1.41	0.68	2.93
0 (reference)	1.00	1.00	1.00

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13SS continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous</b>	1.19	0.52	2.72
<b>Hazardous Drinker</b>	0.87	0.61	1.22
<b>Moderate</b>	0.78	0.58	1.05
<b>Safe Drinker (reference)</b>	1.00	1.00	1.00
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	1.19	0.93	1.53
<b>No civilian OS exposure (reference)</b>	1.00	1.00	1.00
<b>DIABETES</b>			
<b>Diabetes</b>	1.38	0.54	3.51
<b>No diabetes (reference)</b>	1.00	1.00	1.00
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	0.96	0.86	1.08
<b>Canberra</b>	1.09	1.01	1.17
<b>Ipswich</b>	0.59	0.55	0.63
<b>Melbourne</b>	0.55	0.50	0.60
<b>Newcastle</b>	3.04	2.86	3.22
<b>Parramatta</b>	1.28	1.18	1.38
<b>Perth</b>	1.06	0.96	1.16
<b>Brisbane (reference)</b>	1.00	1.00	1.00

**Appendix 13TT : Colour vision clinical diagnosis: Multiple logistic regression  
where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Richmond vs Exposed</b>	0.83	0.56	1.23
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.09	0.01	0.63
<b>30-34yrs vs 60-64yrs</b>	0.06	0.01	0.27
<b>35-39yrs vs 60-64yrs</b>	0.10	0.02	0.41
<b>40-44yrs vs 60-64yrs</b>	0.17	0.04	0.66
<b>45-49yrs vs 60-64yrs</b>	0.15	0.04	0.55
<b>50-54yrs vs 60-64yrs</b>	0.22	0.06	0.83
<b>55-59yrs vs 60-64yrs</b>	0.27	0.07	1.10
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.04	0.68	1.58
<b>1985-1989 vs 1975-1979</b>	0.90	0.51	1.56
<b>1990-1994 vs 1975-1979</b>	1.44	0.64	3.22
<b>1995-1999 vs 1975-1979</b>	0.37	0.10	1.31
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	0.81	0.06	10.76
<b>Non Comm Officer vs Enlisted</b>	0.84	0.55	1.28
<b>Officer vs Enlisted</b>	2.34	0.76	7.17
<b>Unknown vs Enlisted</b>	1.10	0.27	4.52
<b>VISUAL ACUITY*</b>			
<b>10 vs 0</b>	0.93	0.59	1.47
<b>20 vs 0</b>	2.34	0.81	6.72
<b>30 vs 0</b>	1.20	0.46	3.12
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	2.03	0.60	6.84
<b>Hazardous Drinker vs Safe Drinker</b>	0.98	0.68	1.43
<b>Moderate vs Safe Drinker</b>	1.02	0.66	1.56

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13TT continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.26	0.89	1.78
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.22	0.43	3.46
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.97	0.52	1.81
<b>Canberra vs Brisbane</b>	1.16	0.52	2.63
<b>Ipswich vs Brisbane</b>	0.73	0.43	1.24
<b>Melbourne vs Brisbane</b>	0.60	0.23	1.53
<b>Newcastle vs Brisbane</b>	2.62	1.26	5.43
<b>Parramatta vs Brisbane</b>	1.44	0.93	2.22
<b>Perth vs Brisbane</b>	0.98	0.43	2.23

**Appendix 13UU : Colour vision clinical diagnosis: Multiple logistic regression  
where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Richmond vs Exposed</b>	0.95	0.63	1.42
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.13	0.02	0.72
<b>30-34yrs vs 60-64yrs</b>	0.11	0.02	0.47
<b>35-39yrs vs 60-64yrs</b>	0.14	0.03	0.58
<b>40-44yrs vs 60-64yrs</b>	0.21	0.05	0.83
<b>45-49yrs vs 60-64yrs</b>	0.20	0.05	0.77
<b>50-54yrs vs 60-64yrs</b>	0.26	0.07	1.04
<b>55-59yrs vs 60-64yrs</b>	0.55	0.12	2.38
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	1.27	0.77	2.08
<b>1985-1989 vs 1975-1979</b>	1.00	0.60	1.69
<b>1990-1994 vs 1975-1979</b>	1.23	0.62	2.44
<b>1995-1999 vs 1975-1979</b>	0.54	0.18	1.64
<b>RANK CATEGORY</b>			
<b>Civilian vs Enlisted</b>	0.74	0.27	2.05
<b>Non Comm Officer vs Enlisted</b>	0.79	0.51	1.22
<b>Officer vs Enlisted</b>	1.64	0.55	4.92
<b>Unknown vs Enlisted</b>	1.35	0.12	15.46
<b>VISUAL ACUITY*</b>			
<b>10 vs 0</b>	0.90	0.55	1.47
<b>20 vs 0</b>	1.74	0.61	4.91
<b>30 vs 0</b>	1.49	0.53	4.13
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	0.85	0.23	3.08
<b>Hazardous Drinker vs Safe Drinker</b>	0.90	0.62	1.31
<b>Moderate vs Safe Drinker</b>	0.78	0.51	1.20

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13UU continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.10	0.77	1.59
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.08	0.30	3.92
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	1.19	0.61	2.30
<b>Canberra vs Brisbane</b>	1.11	0.50	2.45
<b>Ipswich vs Brisbane</b>	0.66	0.39	1.11
<b>Melbourne vs Brisbane</b>	0.65	0.26	1.65
<b>Newcastle vs Brisbane</b>	2.55	1.24	5.26
<b>Parramatta vs Brisbane</b>	1.27	0.82	1.98
<b>Perth vs Brisbane</b>	2.08	0.74	5.78

**Appendix 13VV : Colour vision clinical diagnosis: Multiple logistic regression  
where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
Mild exposure vs Unexposed	0.89	0.58	1.36
Moderate exposure vs Unexposed	1.35	0.89	2.03
Prolonged exposure vs Unexposed	1.39	0.92	2.10
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.14	0.03	0.61
30-34yrs vs 60-64yrs	0.12	0.03	0.43
35-39yrs vs 60-64yrs	0.12	0.04	0.43
40-44yrs vs 60-64yrs	0.20	0.06	0.66
45-49yrs vs 60-64yrs	0.18	0.06	0.58
50-54yrs vs 60-64yrs	0.24	0.07	0.77
55-59yrs vs 60-64yrs	0.36	0.11	1.26
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.95	0.64	1.42
1985-1989 vs 1975-1979	0.82	0.52	1.28
1990-1994 vs 1975-1979	1.18	0.64	2.18
1995-1999 vs 1975-1979	0.59	0.26	1.35
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.42	0.16	1.15
Non Comm Officer vs Enlisted	0.86	0.59	1.24
Officer vs Enlisted	1.74	0.71	4.29
Unknown vs Enlisted	1.30	0.33	5.12
<b>VISUAL ACUITY*</b>			
10 vs 0	1.02	0.68	1.55
20 vs 0	2.43	0.93	6.33
30 vs 0	1.41	0.55	3.60

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\* Zero represents perfect vision. 30 or more represents visual acuity of 6/18 or worse

Appendix 13VV continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>DRINKER CATEGORY</b>			
<b>Former Hazardous vs Safe Drinker</b>	1.24	0.44	3.52
<b>Hazardous Drinker vs Safe Drinker</b>	0.93	0.67	1.28
<b>Moderate vs Safe Drinker</b>	0.82	0.57	1.19
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.25	0.92	1.69
<b>DIABETES</b>			
<b>Diabetes vs No diabetes</b>	1.34	0.50	3.55
<b>H.S.A. CENTRE</b>			
<b>Adelaide vs Brisbane</b>	0.92	0.52	1.63
<b>Canberra vs Brisbane</b>	0.96	0.46	1.98
<b>Ipswich vs Brisbane</b>	0.58	0.38	0.88
<b>Melbourne vs Brisbane</b>	0.52	0.22	1.24
<b>Newcastle vs Brisbane</b>	2.82	1.44	5.51
<b>Parramatta vs Brisbane</b>	1.23	0.84	1.80
<b>Perth vs Brisbane</b>	1.04	0.47	2.32

## 13.9 OLFACTION

Appendix 13WW : Olfaction score: Multiple linear regression summary for all exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
Intercept	28.73	27.16	30.30
<b>GROUP</b>			
Amberley	0.10	-0.57	0.77
Richmond	0.58	-0.05	1.21
Exposed (reference)	0.00	.	.
<b>AGE CATEGORY</b>			
< 29yrs	3.96	1.75	6.18
30-34yrs	3.51	1.67	5.35
35-39yrs	3.88	2.19	5.57
40-44yrs	3.48	1.93	5.04
45-49yrs	2.42	0.91	3.94
50-54yrs	1.95	0.39	3.51
55-59yrs	2.21	0.56	3.86
> 60yrs (reference)	0.00	.	.
<b>POSTING CATEGORY</b>			
1980-1984	-0.24	-0.96	0.48
1985-1989	0.27	-0.58	1.11
1990-1994	0.18	-0.94	1.30
1995-1999	-0.03	-1.44	1.38
1975-1979 (reference)	0.00	.	.
<b>RANK CATEGORY</b>			
Civilian	-0.36	-2.34	1.62
Non Comm Officer	-0.07	-0.74	0.61
Officer	1.29	-0.39	2.98
Unknown	0.95	-1.60	3.49
Enlisted (reference)	0.00	.	.

Appendix 13WW continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.33	-0.37	1.03
<b>Ex smoker</b>	0.12	-0.46	0.70
<b>Never smoked (reference)</b>	0.00	.	.
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.06	-0.50	0.63
<b>No civilian OS exposure (reference)</b>	0.00	.	.
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.56	-3.62	-1.50
<b>Canberra</b>	-1.83	-3.29	-0.37
<b>Ipswich</b>	0.35	-0.39	1.10
<b>Melbourne</b>	-0.10	-1.16	0.96
<b>Newcastle</b>	0.20	-1.07	1.48
<b>Parramatta</b>	-1.46	-2.16	-0.77
<b>Perth</b>	-1.13	-2.47	0.22
<b>Brisbane (reference)</b>	0.00	.	.

**Appendix 13XX : Olfaction score : Most parsimonious model obtained by  
stepwise regression for all exposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	28.92	27.53	30.30
<b>GROUP</b>			
<b>Amberley</b>	0.08	-0.55	0.71
<b>Richmond</b>	0.50	-0.11	1.10
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	3.83	2.04	5.62
<b>30-34yrs</b>	3.42	1.89	4.94
<b>35-39yrs</b>	3.80	2.33	5.27
<b>40-44yrs</b>	3.38	1.95	4.82
<b>45-49yrs</b>	2.34	0.90	3.79
<b>50-54yrs</b>	1.94	0.41	3.47
<b>55-59yrs</b>	1.89	0.26	3.52
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.45	-3.51	-1.40
<b>Canberra</b>	-1.45	-2.85	-0.06
<b>Ipswich</b>	0.40	-0.32	1.13
<b>Melbourne</b>	0.07	-0.96	1.10
<b>Newcastle</b>	0.28	-1.00	1.55
<b>Parramatta</b>	-1.31	-1.98	-0.63
<b>Perth</b>	-1.11	-2.43	0.20
<b>Brisbane (reference)</b>	0.00	.	.

**Appendix 13YY : Olfaction score: Multiple linear regression with confidence intervals computed using robust standard error estimates derived after clustering on HSA centre**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
Intercept	28.73	27.49	29.97
<b>GROUP</b>			
Amberley	0.10	-0.67	0.88
Richmond	0.58	0.16	1.00
Exposed (reference)	0.00	0.00	0.00
<b>AGE CATEGORY</b>			
< 29yrs	3.96	2.41	5.52
30-34yrs	3.51	1.93	5.09
35-39yrs	3.88	2.89	4.87
40-44yrs	3.48	2.43	4.53
45-49yrs	2.42	1.23	3.62
50-54yrs	1.95	0.94	2.96
55-59yrs	2.21	0.49	3.94
> 60yrs (reference)	0.00	0.00	0.00
<b>POSTING CATEGORY</b>			
1980-1984	-0.24	-0.83	0.36
1985-1989	0.27	-0.56	1.09
1990-1994	0.18	-1.21	1.57
1995-1999	-0.03	-0.92	0.85
1975-1979 (reference)	0.00	0.00	0.00
<b>RANK CATEGORY</b>			
Civilian	-0.36	-1.26	0.54
Non Comm Officer	-0.07	-0.74	0.61
Officer	1.29	0.03	2.56
Unknown	0.95	-2.92	4.81
Enlisted (reference)	0.00	0.00	0.00
<b>SMOKER CATEGORY</b>			
Current smoker	0.33	0.05	0.60
Ex smoker	0.12	-0.44	0.67
Never smoked (reference)	0.00	0.00	0.00

Appendix 13YY continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.06	-0.25	0.38
<b>No civilian OS exposure (reference)</b>	0.00	0.00	0.00
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.56	-2.70	-2.43
<b>Canberra</b>	-1.83	-2.11	-1.55
<b>Ipswich</b>	0.35	0.26	0.45
<b>Melbourne</b>	-0.10	-0.36	0.16
<b>Newcastle</b>	0.20	0.07	0.33
<b>Parramatta</b>	-1.46	-1.57	-1.36
<b>Perth</b>	-1.13	-1.28	-0.98
<b>Brisbane (reference)</b>	0.00	0.00	0.00

**Appendix 13ZZ : Olfaction score: Multiple linear regression where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	28.65	26.92	30.38
<b>GROUP</b>			
<b>Amberley</b>	0.23	-0.59	1.04
<b>Richmond</b>	0.70	-0.08	1.48
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	4.13	1.46	6.80
<b>30-34yrs</b>	3.53	1.39	5.66
<b>35-39yrs</b>	4.02	2.13	5.91
<b>40-44yrs</b>	3.60	1.91	5.30
<b>45-49yrs</b>	2.45	0.81	4.09
<b>50-54yrs</b>	2.09	0.41	3.77
<b>55-59yrs</b>	2.36	0.61	4.12
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	-0.42	-1.17	0.33
<b>1985-1989</b>	0.44	-0.54	1.42
<b>1990-1994</b>	0.05	-1.32	1.41
<b>1995-1999</b>	0.21	-1.51	1.93
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	5.02	-3.41	13.44
<b>Non Comm Officer</b>	-0.21	-0.96	0.54
<b>Officer</b>	0.78	-1.12	2.67
<b>Unknown</b>	1.33	-1.42	4.08
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.17	-0.62	0.97
<b>Ex smoker</b>	0.10	-0.53	0.73
<b>Never smoked (reference)</b>	0.00	.	.

## Appendix 13ZZ continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.13	-0.50	0.77
<b>No civilian OS exposure (reference)</b>	0.00	.	.
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.46	-3.56	-1.36
<b>Canberra</b>	-1.76	-3.32	-0.20
<b>Ipswich</b>	0.36	-0.54	1.26
<b>Melbourne</b>	-0.09	-1.21	1.03
<b>Newcastle</b>	0.18	-1.21	1.56
<b>Parramatta</b>	-1.70	-2.46	-0.95
<b>Perth</b>	-1.15	-2.51	0.21
<b>Brisbane (reference)</b>	0.00	.	.

**Appendix 13AAA : Olfaction score: Multiple linear regression where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	30.02	27.99	32.06
<b>GROUP</b>			
<b>Amberley</b>	-0.61	-1.51	0.30
<b>Richmond</b>	-0.18	-1.07	0.70
<b>Exposed (reference)</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	2.99	0.33	5.64
<b>30-34yrs</b>	3.12	0.89	5.35
<b>35-39yrs</b>	2.98	0.90	5.06
<b>40-44yrs</b>	2.92	0.97	4.87
<b>45-49yrs</b>	2.00	0.11	3.90
<b>50-54yrs</b>	1.29	-0.67	3.25
<b>55-59yrs</b>	1.75	-0.33	3.84
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	-0.04	-0.90	0.82
<b>1985-1989</b>	0.34	-0.62	1.30
<b>1990-1994</b>	0.44	-0.83	1.70
<b>1995-1999</b>	0.24	-1.47	1.95
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	-1.30	-3.52	0.93
<b>Non Comm Officer</b>	0.01	-0.76	0.79
<b>Officer</b>	2.18	0.23	4.13
<b>Unknown</b>	2.46	-2.61	7.53
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.05	-0.75	0.86
<b>Ex smoker</b>	0.03	-0.64	0.70
<b>Never smoked (reference)</b>	0.00	.	.

Appendix 13AAA continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.15	-0.52	0.83
<b>No civilian OS exposure (reference)</b>	0.00	.	.
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.28	-3.48	-1.09
<b>Canberra</b>	-2.05	-3.62	-0.49
<b>Ipswich</b>	-0.25	-1.18	0.68
<b>Melbourne</b>	-0.09	-1.25	1.07
<b>Newcastle</b>	-0.08	-1.54	1.37
<b>Parramatta</b>	-1.49	-2.29	-0.69
<b>Perth</b>	-1.33	-2.88	0.23
<b>Brisbane (reference)</b>	0.00	.	.

**Appendix 13BBB : Olfaction score: Multiple linear regression where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ESTIMATE</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>Intercept</b>	29.73	28.12	31.33
<b>EXPOSURE</b>			
<b>Mild exposure</b>	-0.55	-1.40	0.29
<b>Moderate exposure</b>	0.08	-0.74	0.90
<b>Prolonged exposure</b>	-0.52	-1.34	0.30
<b>Unexposed</b>	0.00	.	.
<b>AGE CATEGORY</b>			
<b>&lt; 29yrs</b>	3.05	0.76	5.35
<b>30-34yrs</b>	2.98	1.10	4.87
<b>35-39yrs</b>	3.21	1.49	4.93
<b>40-44yrs</b>	3.00	1.41	4.59
<b>45-49yrs</b>	1.87	0.33	3.41
<b>50-54yrs</b>	1.44	-0.15	3.03
<b>55-59yrs</b>	1.58	-0.10	3.26
<b>&gt; 60yrs (reference)</b>	0.00	.	.
<b>POSTING CATEGORY</b>			
<b>1980-1984</b>	-0.30	-1.03	0.43
<b>1985-1989</b>	0.32	-0.54	1.18
<b>1990-1994</b>	0.26	-0.90	1.42
<b>1995-1999</b>	0.19	-1.27	1.65
<b>1975-1979 (reference)</b>	0.00	.	.
<b>RANK CATEGORY</b>			
<b>Civilian</b>	-1.47	-3.67	0.73
<b>Non Comm Officer</b>	-0.08	-0.77	0.61
<b>Officer</b>	1.15	-0.56	2.86
<b>Unknown</b>	1.19	-1.58	3.95
<b>Enlisted (reference)</b>	0.00	.	.
<b>SMOKER CATEGORY</b>			
<b>Current smoker</b>	0.07	-0.64	0.78
<b>Ex smoker</b>	0.06	-0.53	0.65
<b>Never smoked (reference)</b>	0.00	.	.

Appendix 13BBB continued...

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure</b>	0.02	-0.55	0.59
<b>No civilian OS exposure (reference)</b>	0.00	.	.
<b>H.S.A. CENTRE</b>			
<b>Adelaide</b>	-2.52	-3.59	-1.45
<b>Canberra</b>	-1.87	-3.33	-0.41
<b>Ipswich</b>	0.31	-0.47	1.08
<b>Melbourne</b>	-0.02	-1.09	1.05
<b>Newcastle</b>	0.32	-0.97	1.61
<b>Parramatta</b>	-1.50	-2.20	-0.79
<b>Perth</b>	-1.18	-2.53	0.16
<b>Brisbane (reference)</b>	0.00	.	.

## 13.10 SELF-REPORTED INCREASED SENSITIVITY TO SMELLS

Appendix 13CCC : Self-reported increased sensitivity to smells: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.53	0.35	0.82
Richmond vs Exposed	0.26	0.16	0.41
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.33	0.08	1.39
30-34yrs vs 60-64yrs	0.17	0.06	0.54
35-39yrs vs 60-64yrs	0.30	0.12	0.77
40-44yrs vs 60-64yrs	0.36	0.16	0.83
45-49yrs vs 60-64yrs	0.43	0.20	0.94
50-54yrs vs 60-64yrs	0.48	0.21	1.08
55-59yrs vs 60-64yrs	0.75	0.32	1.75
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.99	0.61	1.60
1985-1989 vs 1975-1979	1.15	0.67	1.97
1990-1994 vs 1975-1979	1.35	0.67	2.75
1995-1999 vs 1975-1979	0.75	0.25	2.26
<b>RANK CATEGORY</b>			
Civilian vs Enlisted	0.64	0.21	1.91
Non Comm Officer vs Enlisted	0.86	0.54	1.36
Officer vs Enlisted	0.53	0.15	1.87
Unknown vs Enlisted	0.90	0.27	2.98
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	0.89	0.54	1.45
Ex smoker vs Never smoked	1.06	0.71	1.58

Appendix 13 CCC continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.81	1.26	2.60

**Appendix 13DDD : Self-reported increased sensitivity to smells: Most parsimonious model obtained by stepwise regression for all exposed**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
<b>GROUP</b>			
Amberley vs Exposed	0.54	0.35	0.82
Richmond vs Exposed	0.26	0.17	0.42
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.33	0.11	1.01
30-34yrs vs 60-64yrs	0.21	0.08	0.53
35-39yrs vs 60-64yrs	0.35	0.16	0.77
40-44yrs vs 60-64yrs	0.40	0.19	0.85
45-49yrs vs 60-64yrs	0.46	0.22	0.96
50-54yrs vs 60-64yrs	0.49	0.22	1.09
55-59yrs vs 60-64yrs	0.73	0.31	1.67
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.85	1.30	2.64

**Appendix 13EEE : Self-reported increased sensitivity to smells: Multiple logistic regression where the exposed group are all those in Program 1**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.44	0.26	0.74
<b>Richmond vs Exposed</b>	0.22	0.13	0.37
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.13	0.01	1.54
<b>30-34yrs vs 60-64yrs</b>	0.09	0.02	0.44
<b>35-39yrs vs 60-64yrs</b>	0.26	0.09	0.74
<b>40-44yrs vs 60-64yrs</b>	0.23	0.09	0.58
<b>45-49yrs vs 60-64yrs</b>	0.36	0.16	0.82
<b>50-54yrs vs 60-64yrs</b>	0.32	0.14	0.77
<b>55-59yrs vs 60-64yrs</b>	0.63	0.27	1.50
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	0.94	0.55	1.59
<b>1985-1989 vs 1975-1979</b>	1.69	0.89	3.23
<b>1990-1994 vs 1975-1979</b>	0.92	0.29	2.89
<b>1995-1999 vs 1975-1979</b>	1.33	0.30	5.84
<b>RANK CATEGORY</b>			
<b>Civilian/unknown vs Enlisted</b>	0.75	0.22	2.56
<b>Non Comm Officer vs Enlisted</b>	0.84	0.49	1.43
<b>Officer vs Enlisted</b>	0.42	0.09	1.92
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.11	0.63	1.97
<b>Ex smoker vs Never smoked</b>	1.20	0.75	1.90
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.92	1.27	2.91

**Appendix 13FFF : Self-reported increased sensitivity to smells: Multiple logistic regression where the exposed group are all those in Program 2**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>GROUP</b>			
<b>Amberley vs Exposed</b>	0.43	0.25	0.75
<b>Richmond vs Exposed</b>	0.22	0.12	0.39
<b>AGE CATEGORY</b>			
<b>25-29yrs vs 60-64yrs</b>	0.13	0.02	0.88
<b>30-34yrs vs 60-64yrs</b>	0.15	0.04	0.57
<b>35-39yrs vs 60-64yrs</b>	0.28	0.09	0.89
<b>40-44yrs vs 60-64yrs</b>	0.30	0.10	0.87
<b>45-49yrs vs 60-64yrs</b>	0.47	0.18	1.25
<b>50-54yrs vs 60-64yrs</b>	0.32	0.11	0.97
<b>55-59yrs vs 60-64yrs</b>	0.82	0.28	2.44
<b>POSTING CATEGORY</b>			
<b>1980-1984 vs 1975-1979</b>	0.83	0.43	1.58
<b>1985-1989 vs 1975-1979</b>	1.05	0.55	2.02
<b>1990-1994 vs 1975-1979</b>	1.55	0.68	3.52
<b>1995-1999 vs 1975-1979</b>	1.18	0.28	4.95
<b>RANK CATEGORY</b>			
<b>Civilian/unknown vs Enlisted</b>	0.48	0.14	1.62
<b>Non Comm Officer vs Enlisted</b>	0.68	0.39	1.21
<b>Officer vs Enlisted</b>	0.24	0.03	1.88
<b>Unknown vs Enlisted</b>	0.35	0.04	3.55
<b>SMOKER CATEGORY</b>			
<b>Current smoker vs Never smoked</b>	1.39	0.78	2.48
<b>Ex smoker vs Never smoked</b>	1.29	0.78	2.13
<b>OS EXPOSURE</b>			
<b>Civilian OS exposure vs No civilian OS exposure</b>	1.91	1.21	3.01

**Appendix 13GGG : Self-reported increased sensitivity to smells: Multiple linear regression where exposed are classified by dose and contrasted to the unexposed**

<b>EFFECT</b>	<b>ODDS RATIO</b>	<b>95% CONFIDENCE LIMITS</b>	
<b>EXPOSURE</b>			
Mild exposure vs Unexposed	2.03	1.17	3.54
Moderate exposure vs Unexposed	2.36	1.41	3.96
Prolonged exposure vs Unexposed	3.80	2.40	6.01
<b>AGE CATEGORY</b>			
25-29yrs vs 60-64yrs	0.28	0.06	1.28
30-34yrs vs 60-64yrs	0.18	0.06	0.57
35-39yrs vs 60-64yrs	0.29	0.11	0.75
40-44yrs vs 60-64yrs	0.34	0.15	0.79
45-49yrs vs 60-64yrs	0.42	0.19	0.93
50-54yrs vs 60-64yrs	0.39	0.17	0.91
55-59yrs vs 60-64yrs	0.69	0.29	1.64
<b>POSTING CATEGORY</b>			
1980-1984 vs 1975-1979	0.87	0.52	1.44
1985-1989 vs 1975-1979	1.12	0.64	1.94
1990-1994 vs 1975-1979	1.33	0.63	2.78
1995-1999 vs 1975-1979	0.78	0.24	2.52
<b>RANK CATEGORY</b>			
Civilian/unknown vs Enlisted	0.66	0.21	2.09
Non Comm Officer vs Enlisted	0.83	0.52	1.35
Officer vs Enlisted	0.36	0.08	1.61
Unknown vs Enlisted	1.02	0.30	3.48
<b>SMOKER CATEGORY</b>			
Current smoker vs Never smoked	1.07	0.65	1.77
Ex smoker vs Never smoked	1.12	0.75	1.69
<b>OS EXPOSURE</b>			
Civilian OS exposure vs No civilian OS exposure	1.77	1.23	2.57

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