
14 – Sexual Function and Reproductive Health

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14.1 MALE SEXUAL FUNCTION

14.1.1 SELF-REPORTED LOSS OF INTEREST IN SEX

Appendix 14A : Self-reported loss of interest in sex: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.50	0.35	0.70
Richmond vs Exposed	0.57	0.42	0.78
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.54	0.17	1.72
30-34yrs vs 60-64yrs	0.22	0.09	0.53
35-39yrs vs 60-64yrs	0.30	0.14	0.68
40-44yrs vs 60-64yrs	0.38	0.19	0.78
45-49yrs vs 60-64yrs	0.42	0.21	0.84
50-54yrs vs 60-64yrs	0.69	0.34	1.39
55-59yrs vs 60-64yrs	0.92	0.44	1.93
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.21	0.84	1.73
1985-1989 vs 1975-1979	1.01	0.66	1.54
1990-1994 vs 1975-1979	0.85	0.49	1.50
1995-1999 vs 1975-1979	0.88	0.39	1.97
RANK CATEGORY			
Civilian vs Enlisted	0.80	0.31	2.04
Non Comm Officer vs Enlisted	1.00	0.71	1.41
Officer vs Enlisted	0.30	0.10	0.85
Unknown vs Enlisted	1.62	0.48	5.49
SMOKER CATEGORY			
Current smoker vs Never smoked	2.31	1.62	3.29
Ex smoker vs Never smoked	1.28	0.94	1.74

Appendix 14A continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
B.M.I.			
Obese vs Normal weight	1.64	1.12	2.41
Overweight vs Normal weight	0.96	0.67	1.40
ANXIETY			
Anxiety vs No anxiety	2.39	1.64	3.48
DEPRESSION			
Depression vs No Depression	4.69	2.89	7.62
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.83	0.61	1.13
NT EXPOSURE			
NT exposure vs No NT Exposure	1.56	1.05	2.32

NT = Neurotoxin

**Appendix 14B : Self-reported loss of interest in sex: Most parsimonious model
obtained by logistic regression for all exposed**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.52	0.37	0.72
Richmond vs Exposed	0.59	0.43	0.79
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.45	0.18	1.14
30-34yrs vs 60-64yrs	0.20	0.09	0.43
35-39yrs vs 60-64yrs	0.31	0.15	0.61
40-44yrs vs 60-64yrs	0.40	0.21	0.77
45-49yrs vs 60-64yrs	0.42	0.22	0.82
50-54yrs vs 60-64yrs	0.70	0.35	1.39
55-59yrs vs 60-64yrs	0.88	0.42	1.81
SMOKER CATEGORY			
Current smoker vs Never smoked	2.30	1.62	3.27
Ex smoker vs Never smoked	1.27	0.94	1.72
B.M.I.			
Obese vs Normal weight	1.67	1.15	2.44
Overweight vs Normal weight	0.99	0.68	1.42
ANXIETY			
Anxiety vs No anxiety	2.36	1.62	3.42
DEPRESSION			
Depression vs No Depression	4.76	2.94	7.69
NT EXPOSURE			
NT exposure vs No NT Exposure	1.43	0.99	2.07

**Appendix 14C : Self-reported loss of interest in sex: Multiple logistic regression
where the exposed group are all those in Program 1**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.55	0.36	0.83
Richmond vs Exposed	0.62	0.43	0.91
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.55	0.13	2.38
30-34yrs vs 60-64yrs	0.15	0.05	0.45
35-39yrs vs 60-64yrs	0.24	0.10	0.60
40-44yrs vs 60-64yrs	0.34	0.16	0.75
45-49yrs vs 60-64yrs	0.39	0.19	0.82
50-54yrs vs 60-64yrs	0.63	0.30	1.33
55-59yrs vs 60-64yrs	0.80	0.37	1.74
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.22	0.84	1.79
1985-1989 vs 1975-1979	0.98	0.59	1.64
1990-1994 vs 1975-1979	0.94	0.46	1.92
1995-1999 vs 1975-1979	0.84	0.30	2.38
RANK CATEGORY			
Non Comm Officer vs Enlisted	1.14	0.78	1.66
Officer vs Enlisted	0.42	0.14	1.23
Unknown vs Enlisted	1.29	0.39	4.28
SMOKER CATEGORY			
Current smoker vs Never smoked	2.33	1.56	3.49
Ex smoker vs Never smoked	1.23	0.87	1.73
B.M.I.			
Obese vs Normal weight	1.73	1.12	2.68
Overweight vs Normal weight	0.99	0.64	1.52
ANXIETY			
Anxiety vs No anxiety	2.33	1.50	3.63

Appendix 14C continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	3.96	2.29	6.86
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.78	0.55	1.12
NT EXPOSURE			
NT exposure vs No NT Exposure	1.58	1.01	2.46

**Appendix 14D : Self-reported loss of interest in sex: Multiple logistic regression
where the exposed group are all those in Program 2**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.51	0.33	0.81
Richmond vs Exposed	0.58	0.38	0.90
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.47	0.11	2.03
30-34yrs vs 60-64yrs	0.28	0.09	0.82
35-39yrs vs 60-64yrs	0.40	0.15	1.05
40-44yrs vs 60-64yrs	0.47	0.19	1.14
45-49yrs vs 60-64yrs	0.44	0.19	1.05
50-54yrs vs 60-64yrs	0.89	0.37	2.14
55-59yrs vs 60-64yrs	1.04	0.42	2.61
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.14	0.74	1.76
1985-1989 vs 1975-1979	0.85	0.52	1.38
1990-1994 vs 1975-1979	0.91	0.48	1.72
1995-1999 vs 1975-1979	0.73	0.27	2.00
RANK CATEGORY			
Civilian vs Enlisted	0.78	0.25	2.37
Non Comm Officer vs Enlisted	1.21	0.81	1.80
Officer vs Enlisted	0.68	0.22	2.10
Unknown vs Enlisted	0.81	0.09	7.46
SMOKER CATEGORY			
Current smoker vs Never smoked	2.73	1.81	4.14
Ex smoker vs Never smoked	1.28	0.89	1.85
B.M.I.			
Obese vs Normal weight	1.74	1.11	2.75
Overweight vs Normal weight	0.96	0.61	1.51
ANXIETY			
Anxiety vs No anxiety	1.97	1.24	3.15

Appendix 14D continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	5.58	3.03	10.25
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.98	0.68	1.43
NT EXPOSURE			
NT exposure vs No NT Exposure	1.39	0.86	2.24

**Appendix 14E : Self-reported loss of interest in sex: Multiple logistic regression
where exposed are classified by dose and contrasted to the unexposed**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
EXPOSURE			
Mild exposure vs Unexposed	1.60	1.04	2.45
Moderate exposure vs Unexposed	2.14	1.44	3.18
Prolonged exposure vs Unexposed	1.89	1.27	2.82
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.57	0.17	1.88
30-34yrs vs 60-64yrs	0.24	0.10	0.61
35-39yrs vs 60-64yrs	0.28	0.12	0.64
40-44yrs vs 60-64yrs	0.40	0.19	0.84
45-49yrs vs 60-64yrs	0.41	0.20	0.84
50-54yrs vs 60-64yrs	0.70	0.34	1.43
55-59yrs vs 60-64yrs	0.93	0.44	1.98
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.17	0.81	1.68
1985-1989 vs 1975-1979	1.00	0.65	1.54
1990-1994 vs 1975-1979	0.85	0.47	1.54
1995-1999 vs 1975-1979	0.83	0.36	1.92
RANK CATEGORY			
Civilian vs Enlisted	0.95	0.34	2.67
Non Comm Officer vs Enlisted	1.01	0.71	1.43
Officer vs Enlisted	0.32	0.11	0.91
Unknown vs Enlisted	1.35	0.38	4.81
SMOKER CATEGORY			
Current smoker vs Never smoked	2.29	1.60	3.28
Ex smoker vs Never smoked	1.24	0.91	1.69
B.M.I.			
Obese vs Normal weight	1.65	1.11	2.44
Overweight vs Normal weight	0.96	0.66	1.40

Appendix 14E continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
ANXIETY			
Anxiety vs No anxiety	2.36	1.60	3.48
DEPRESSION			
Depression vs No Depression	4.15	2.52	6.83
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.82	0.60	1.13
NT EXPOSURE			
NT exposure vs No NT Exposure	1.55	1.03	2.35

14.1.2 SELF-REPORTED PROBLEMS WITH SEXUAL FUNCTIONING

Appendix 14F : Self-reported problems with sexual functioning: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.52	0.36	0.76
Richmond vs Exposed	0.43	0.30	0.61
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.07	0.01	0.38
30-34yrs vs 60-64yrs	0.08	0.03	0.23
35-39yrs vs 60-64yrs	0.12	0.05	0.29
40-44yrs vs 60-64yrs	0.17	0.08	0.36
45-49yrs vs 60-64yrs	0.24	0.12	0.48
50-54yrs vs 60-64yrs	0.40	0.20	0.81
55-59yrs vs 60-64yrs	0.68	0.33	1.43
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.04	0.71	1.53
1985-1989 vs 1975-1979	0.81	0.51	1.28
1990-1994 vs 1975-1979	0.87	0.47	1.61
1995-1999 vs 1975-1979	0.56	0.21	1.52
RANK CATEGORY			
Civilian vs Enlisted	1.26	0.48	3.36
Non Comm Officer vs Enlisted	1.35	0.93	1.96
Officer vs Enlisted	1.08	0.44	2.62
Unknown vs Enlisted	3.67	0.90	14.89
SMOKER CATEGORY			
Current smoker vs Never smoked	1.91	1.28	2.85
Ex smoker vs Never smoked	1.35	0.96	1.89
B.M.I.			
Obese vs Normal weight	1.93	1.26	2.97
Overweight vs Normal weight	1.18	0.78	1.80

Appendix 14F continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
ANXIETY			
Anxiety vs No anxiety	2.51	1.68	3.76
DEPRESSION			
Depression vs No Depression	3.30	2.01	5.40
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.76	0.54	1.08
NT EXPOSURE			
NT exposure vs No NT Exposure	1.61	1.04	2.48

Appendix 14G : Self-reported problems with sexual functioning: Most parsimonious model obtained by logistic regression for all exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.53	0.37	0.75
Richmond vs Exposed	0.43	0.31	0.61
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.04	0.01	0.17
30-34yrs vs 60-64yrs	0.05	0.02	0.12
35-39yrs vs 60-64yrs	0.08	0.04	0.18
40-44yrs vs 60-64yrs	0.13	0.07	0.26
45-49yrs vs 60-64yrs	0.20	0.10	0.39
50-54yrs vs 60-64yrs	0.38	0.19	0.75
55-59yrs vs 60-64yrs	0.68	0.33	1.40
SMOKER CATEGORY			
Current smoker vs Never smoked	1.94	1.30	2.89
Ex smoker vs Never smoked	1.38	0.99	1.92
B.M.I.			
Obese vs Normal weight	1.98	1.29	3.02
Overweight vs Normal weight	1.20	0.79	1.82
ANXIETY			
Anxiety vs No anxiety	2.38	1.61	3.54
DEPRESSION			
Depression vs No Depression	3.37	2.07	5.46

Appendix 14H : Self-reported problems with sexual functioning: Multiple logistic regression where the exposed group are all those in Program 1

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.49	0.32	0.76
Richmond vs Exposed	0.40	0.26	0.60
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.09	0.01	0.96
30-34yrs vs 60-64yrs	0.06	0.02	0.24
35-39yrs vs 60-64yrs	0.11	0.04	0.29
40-44yrs vs 60-64yrs	0.19	0.09	0.43
45-49yrs vs 60-64yrs	0.28	0.13	0.58
50-54yrs vs 60-64yrs	0.46	0.22	0.98
55-59yrs vs 60-64yrs	0.77	0.35	1.67
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.06	0.70	1.59
1985-1989 vs 1975-1979	1.11	0.65	1.92
1990-1994 vs 1975-1979	0.92	0.41	2.10
1995-1999 vs 1975-1979	0.72	0.20	2.57
RANK CATEGORY			
Non Comm Officer vs Enlisted	1.44	0.96	2.18
Officer vs Enlisted	1.41	0.56	3.60
Unknown vs Enlisted	1.27	0.39	4.19
SMOKER CATEGORY			
Current smoker vs Never smoked	1.93	1.23	3.03
Ex smoker vs Never smoked	1.30	0.89	1.88
B.M.I.			
Obese vs Normal weight	2.13	1.31	3.47
Overweight vs Normal weight	1.24	0.76	2.01
ANXIETY			
Anxiety vs No anxiety	2.58	1.62	4.12

Appendix 14H continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	2.57	1.46	4.53
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.77	0.52	1.14
NT EXPOSURE			
NT exposure vs No NT Exposure	1.65	1.02	2.67

Appendix 14I : Self-reported problems with sexual functioning: Multiple logistic regression where the exposed group are all those in Program 2

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.64	0.39	1.06
Richmond vs Exposed	0.51	0.31	0.84
AGE CATEGORY			
30-34yrs vs 60-64yrs	0.08	0.03	0.26
35-39yrs vs 60-64yrs	0.14	0.05	0.40
40-44yrs vs 60-64yrs	0.17	0.07	0.42
45-49yrs vs 60-64yrs	0.25	0.11	0.59
50-54yrs vs 60-64yrs	0.48	0.20	1.12
55-59yrs vs 60-64yrs	0.76	0.31	1.85
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.88	0.55	1.42
1985-1989 vs 1975-1979	0.78	0.46	1.33
1990-1994 vs 1975-1979	1.00	0.50	1.99
1995-1999 vs 1975-1979	0.59	0.17	2.03
RANK CATEGORY			
Civilian vs Enlisted	1.18	0.37	3.73
Non Comm Officer vs Enlisted	1.25	0.80	1.94
Officer vs Enlisted	0.73	0.22	2.40
Unknown vs Enlisted	6.82	0.58	79.79
SMOKER CATEGORY			
Current smoker vs Never smoked	2.15	1.34	3.45
Ex smoker vs Never smoked	1.36	0.91	2.04
B.M.I.			
Obese vs Normal weight	1.99	1.18	3.34
Overweight vs Normal weight	1.18	0.71	1.97
ANXIETY			
Anxiety vs No anxiety	1.94	1.18	3.21

Appendix 14I continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	4.37	2.37	8.06
OS EXPOSURE			
OS Exposure vs No OS Exposure	1.04	0.68	1.57
NT EXPOSURE			
NT exposure vs No NT Exposure	1.30	0.77	2.20

Appendix 14J : Self-reported problems with sexual functioning: Multiple logistic regression where exposed are classified by dose and contrasted to the unexposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
EXPOSURE			
Mild exposure vs Unexposed	1.75	1.09	2.80
Moderate exposure vs Unexposed	2.50	1.62	3.87
Prolonged exposure vs Unexposed	1.88	1.21	2.91
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.08	0.01	0.45
30-34yrs vs 60-64yrs	0.09	0.03	0.25
35-39yrs vs 60-64yrs	0.12	0.05	0.28
40-44yrs vs 60-64yrs	0.17	0.08	0.37
45-49yrs vs 60-64yrs	0.25	0.12	0.50
50-54yrs vs 60-64yrs	0.43	0.21	0.87
55-59yrs vs 60-64yrs	0.74	0.35	1.55
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.03	0.69	1.52
1985-1989 vs 1975-1979	0.87	0.55	1.39
1990-1994 vs 1975-1979	0.90	0.47	1.73
1995-1999 vs 1975-1979	0.57	0.21	1.61
RANK CATEGORY			
Civilian vs Enlisted	1.88	0.67	5.33
Non Comm Officer vs Enlisted	1.32	0.90	1.94
Officer vs Enlisted	1.15	0.47	2.84
Unknown vs Enlisted	3.55	0.85	14.82
SMOKER CATEGORY			
Current smoker vs Never smoked	1.93	1.28	2.90
Ex smoker vs Never smoked	1.34	0.95	1.89
B.M.I.			
Obese vs Normal weight	1.80	1.16	2.78
Overweight vs Normal weight	1.12	0.73	1.71

Appendix 14J continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
ANXIETY			
Anxiety vs No anxiety	2.61	1.72	3.96
DEPRESSION			
Depression vs No Depression	3.19	1.92	5.31
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.74	0.52	1.06
NT EXPOSURE			
NT exposure vs No NT Exposure	1.60	1.02	2.51

14.1.3 INTERNATIONAL INDEX OF ERECTILE FUNCTION – ERECTILE DYSFUNCTION

Appendix 14K : Erectile dysfunction: Multiple logistic regression summary for all
exposed

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.54	0.37	0.77
Richmond vs Exposed	0.54	0.38	0.75
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.08	0.02	0.30
30-34yrs vs 60-64yrs	0.05	0.02	0.13
35-39yrs vs 60-64yrs	0.11	0.05	0.28
40-44yrs vs 60-64yrs	0.10	0.05	0.24
45-49yrs vs 60-64yrs	0.15	0.07	0.34
50-54yrs vs 60-64yrs	0.27	0.12	0.61
55-59yrs vs 60-64yrs	0.62	0.27	1.47
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.85	0.58	1.25
1985-1989 vs 1975-1979	0.67	0.43	1.05
1990-1994 vs 1975-1979	1.04	0.58	1.85
1995-1999 vs 1975-1979	1.10	0.48	2.50
RANK CATEGORY			
Civilian vs Enlisted	0.78	0.27	2.22
Non Comm Officer vs Enlisted	1.18	0.82	1.69
Officer vs Enlisted	0.69	0.29	1.64
Unknown vs Enlisted	1.17	0.30	4.55
B.M.I.			
Obese vs Normal weight	1.55	1.02	2.34
Overweight vs Normal weight	0.93	0.63	1.39

Appendix 14K continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker vs Never smoked	1.66	1.13	2.44
Ex smoker vs Never smoked	1.27	0.92	1.75
ANXIETY			
Anxiety vs No anxiety	2.18	1.42	3.32
DEPRESSION			
Depression vs No Depression	3.86	2.21	6.72
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.79	0.57	1.10
NT EXPOSURE			
NT exposure vs No NT Exposure	1.77	1.16	2.69

**Appendix 14L : Erectile dysfunction: Most parsimonious model obtained by
logistic regression for all exposed**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.58	0.41	0.82
Richmond vs Exposed	0.56	0.40	0.77
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.09	0.03	0.26
30-34yrs vs 60-64yrs	0.04	0.02	0.10
35-39yrs vs 60-64yrs	0.09	0.04	0.20
40-44yrs vs 60-64yrs	0.09	0.04	0.20
45-49yrs vs 60-64yrs	0.14	0.06	0.30
50-54yrs vs 60-64yrs	0.26	0.12	0.58
55-59yrs vs 60-64yrs	0.62	0.27	1.43
SMOKER CATEGORY			
Current smoker vs Never smoked	1.65	1.12	2.42
Ex smoker vs Never smoked	1.27	0.93	1.75
B.M.I.			
Obese vs Normal weight	1.54	1.02	2.32
Overweight vs Normal weight	0.93	0.63	1.38
ANXIETY			
Anxiety vs No anxiety	2.12	1.39	3.21
DEPRESSION			
Depression vs No Depression	3.91	2.26	6.75
NT EXPOSURE			
NT exposure vs No NT Exposure	1.59	1.08	2.33

Appendix 14M : Erectile dysfunction: Multiple logistic regression where the exposed group are all those in Program 1

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.47	0.30	0.74
Richmond vs Exposed	0.48	0.32	0.72
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.04	0.01	0.22
30-34yrs vs 60-64yrs	0.03	0.01	0.12
35-39yrs vs 60-64yrs	0.08	0.03	0.24
40-44yrs vs 60-64yrs	0.07	0.03	0.17
45-49yrs vs 60-64yrs	0.12	0.05	0.31
50-54yrs vs 60-64yrs	0.22	0.09	0.56
55-59yrs vs 60-64yrs	0.54	0.21	1.40
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.93	0.62	1.41
1985-1989 vs 1975-1979	0.66	0.38	1.14
1990-1994 vs 1975-1979	1.45	0.70	3.01
1995-1999 vs 1975-1979	2.05	0.78	5.42
RANK CATEGORY			
Non Comm Officer vs Enlisted	1.22	0.81	1.82
Officer vs Enlisted	0.59	0.22	1.55
Unknown vs Enlisted	0.79	0.19	3.22
SMOKER CATEGORY			
Current smoker vs Never smoked	1.50	0.96	2.32
Ex smoker vs Never smoked	1.14	0.80	1.64
B.M.I.			
Obese vs Normal weight	1.45	0.90	2.32
Overweight vs Normal weight	0.97	0.62	1.54
ANXIETY			
Anxiety vs No anxiety	2.38	1.45	3.91

Appendix 14M continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	3.20	1.68	6.10
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.69	0.47	1.02
NT EXPOSURE			
NT exposure vs No NT Exposure	1.71	1.07	2.74

Appendix 14N : Erectile dysfunction: Multiple logistic regression where the exposed group are all those in Program 2

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
GROUP			
Amberley vs Exposed	0.49	0.30	0.79
Richmond vs Exposed	0.48	0.30	0.76
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.03	0.01	0.17
30-34yrs vs 60-64yrs	0.04	0.01	0.13
35-39yrs vs 60-64yrs	0.10	0.03	0.31
40-44yrs vs 60-64yrs	0.09	0.03	0.24
45-49yrs vs 60-64yrs	0.13	0.05	0.33
50-54yrs vs 60-64yrs	0.26	0.10	0.68
55-59yrs vs 60-64yrs	0.58	0.21	1.62
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.81	0.51	1.28
1985-1989 vs 1975-1979	0.60	0.35	1.01
1990-1994 vs 1975-1979	1.11	0.58	2.15
1995-1999 vs 1975-1979	1.57	0.60	4.11
RANK CATEGORY			
Civilian vs Enlisted	0.68	0.19	2.44
Non Comm Officer vs Enlisted	1.15	0.76	1.75
Officer vs Enlisted	0.54	0.18	1.61
Unknown vs Enlisted	0.66	0.07	6.24
SMOKER CATEGORY			
Current smoker vs Never smoked	1.84	1.18	2.87
Ex smoker vs Never smoked	1.06	0.72	1.54
B.M.I.			
Obese vs Normal weight	1.55	0.95	2.54
Overweight vs Normal weight	0.97	0.60	1.57
ANXIETY			
Anxiety vs No anxiety	1.69	1.00	2.86

Appendix 14N continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
DEPRESSION			
Depression vs No Depression	4.79	2.35	9.74
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.89	0.60	1.32
NT EXPOSURE			
NT exposure vs No NT Exposure	1.93	1.18	3.15

**Appendix 140 : Erectile dysfunction: Multiple logistic regression where exposed
are classified by dose and contrasted to the unexposed**

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
EXPOSURE			
Mild exposure vs Unexposed	1.17	0.72	1.89
Moderate exposure vs Unexposed	1.91	1.23	2.95
Prolonged exposure vs Unexposed	2.29	1.50	3.51
AGE CATEGORY			
25-29yrs vs 60-64yrs	0.08	0.02	0.32
30-34yrs vs 60-64yrs	0.05	0.02	0.15
35-39yrs vs 60-64yrs	0.11	0.04	0.27
40-44yrs vs 60-64yrs	0.11	0.04	0.25
45-49yrs vs 60-64yrs	0.15	0.06	0.33
50-54yrs vs 60-64yrs	0.27	0.12	0.62
55-59yrs vs 60-64yrs	0.63	0.27	1.50
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.85	0.58	1.26
1985-1989 vs 1975-1979	0.69	0.44	1.10
1990-1994 vs 1975-1979	0.99	0.54	1.81
1995-1999 vs 1975-1979	1.07	0.46	2.51
RANK CATEGORY			
Civilian vs Enlisted	0.78	0.25	2.46
Non Comm Officer vs Enlisted	1.18	0.81	1.71
Officer vs Enlisted	0.64	0.26	1.62
Unknown vs Enlisted	1.03	0.25	4.22
SMOKER CATEGORY			
Current smoker vs Never smoked	1.61	1.08	2.39
Ex smoker vs Never smoked	1.20	0.86	1.66
B.M.I.			
Obese vs Normal weight	1.51	0.98	2.31
Overweight vs Normal weight	0.95	0.63	1.43

Appendix 14O continued...

EFFECT	ODDS RATIO	95% CONFIDENCE LIMITS	
ANXIETY			
Anxiety vs No anxiety	2.07	1.33	3.22
DEPRESSION			
Depression vs No Depression	4.07	2.27	7.30
OS EXPOSURE			
OS Exposure vs No OS Exposure	0.77	0.55	1.09
NT EXPOSURE			
NT exposure vs No NT Exposure	1.83	1.19	2.81

14.1.4 INTERNATIONAL INDEX OF ERECTILE FUNCTION – OVERALL SEXUAL FUNCTION

Appendix 14P : Overall sexual function: Multiple linear regression summary for all
exposed

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
GROUP			
Amberley	-0.33	-0.48	-0.19
Richmond	-0.26	-0.39	-0.13
Exposed (reference)	0.00		
AGE CATEGORY			
< 29yrs	-1.32	-1.83	-0.80
30-34yrs	-1.39	-1.80	-0.98
35-39yrs	-1.16	-1.54	-0.78
40-44yrs	-1.04	-1.39	-0.69
45-49yrs	-0.93	-1.27	-0.60
50-54yrs	-0.73	-1.08	-0.38
55-59yrs	-0.46	-0.83	-0.10
> 60yrs (reference)	0.00		
POSTING CATEGORY			
1980-1984	-0.12	-0.28	0.04
1985-1989	-0.10	-0.28	0.09
1990-1994	-0.12	-0.36	0.12
1995-1999	-0.03	-0.35	0.29
1975-1979 (reference)	0.00		
RANK CATEGORY			
Civilian	0.03	-0.40	0.46
Non Comm Officer	0.11	-0.04	0.26
Officer	0.04	-0.31	0.38
Unknown	0.27	-0.26	0.80
Enlisted (reference)	0.00		

Appendix 14P continued..

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
SMOKER CATEGORY			
Current smoker	0.17	0.01	0.33
Ex smoker	0.07	-0.06	0.20
Never smoked (reference)	0.00		
B.M.I.			
Obese	0.03	-0.13	0.20
Overweight	-0.16	-0.32	-0.01
Normal weight (reference)	0.00		
ANXIETY			
Anxiety	0.41	0.22	0.60
No anxiety (reference)	0.00		
DEPRESSION			
Depression	0.56	0.32	0.80
No Depression (reference)	0.00		
OS EXPOSURE			
OS Exposure	-0.02	-0.15	0.11
No OS Exposure (reference)	0.00		
NT EXPOSURE			
NT exposure	0.24	0.06	0.41
No NT Exposure (reference)	0.00		

**Appendix 14Q : Overall sexual function: Most parsimonious model obtained by
stepwise regression for all exposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
GROUP			
Amberley	-0.32	-0.46	-0.18
Richmond	-0.27	-0.40	-0.14
Exposed (reference)	0.00		
AGE CATEGORY			
< 29yrs	-1.44	-1.87	-1.01
30-34yrs	-1.55	-1.90	-1.21
35-39yrs	-1.34	-1.67	-1.01
40-44yrs	-1.17	-1.49	-0.85
45-49yrs	-1.01	-1.34	-0.69
50-54yrs	-0.77	-1.11	-0.43
55-59yrs	-0.47	-0.84	-0.11
> 60yrs (reference)	0.00		
B.M.I.			
Obese	0.02	-0.15	0.18
Overweight	-0.18	-0.33	-0.02
Normal weight (reference)	0.00		
ANXIETY			
Anxiety	0.43	0.24	0.61
No anxiety (reference)	0.00		
DEPRESSION			
Depression	0.57	0.33	0.80
No Depression (reference)	0.00		
NT EXPOSURE			
NT exposure	0.23	0.07	0.39
No NT Exposure (reference)	0.00		

Appendix 14R : Overall sexual function: Multiple linear regression where the exposed group are all those in Program 1

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
GROUP			
Amberley	-0.39	-0.58	-0.21
Richmond	-0.31	-0.48	-0.14
Exposed (reference)	0.00		
AGE CATEGORY			
< 29yrs	-1.58	-2.21	-0.95
30-34yrs	-1.47	-1.94	-1.00
35-39yrs	-1.26	-1.68	-0.84
40-44yrs	-1.12	-1.5	-0.74
45-49yrs	-0.96	-1.33	-0.59
50-54yrs	-0.73	-1.11	-0.36
55-59yrs	-0.49	-0.88	-0.09
> 60yrs (reference)	0.00		
POSTING CATEGORY			
1980-1984	-0.09	-0.26	0.07
1985-1989	-0.09	-0.30	0.12
1990-1994	0.12	-0.17	0.41
1995-1999	0.18	-0.21	0.58
1975-1979 (reference)	0.00		
RANK CATEGORY			
Civilian	-0.95	-2.33	0.44
Non Comm Officer	0.17	0.00	0.33
Officer	0.01	-0.38	0.40
Unknown	0.43	-0.18	1.05
Enlisted (reference)	0.00		
SMOKER CATEGORY			
Current smoker	0.13	-0.05	0.30
Ex smoker	0.03	-0.11	0.17
Never smoked (reference)	0.00		

Appendix 14R continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
B.M.I.			
Obese	0.04	-0.15	0.22
Overweight	-0.15	-0.32	0.03
Normal weight (reference)	0.00		
ANXIETY			
Anxiety	0.45	0.23	0.66
No anxiety (reference)	0.00		
DEPRESSION			
Depression	0.43	0.15	0.70
No Depression (reference)	0.00		
OS EXPOSURE			
OS Exposure	-0.09	-0.24	0.06
No OS Exposure (reference)	0.00		
NT EXPOSURE			
NT exposure	0.23	0.03	0.42
No NT Exposure (reference)	0.00		

Appendix 14S : Overall sexual function: Multiple linear regression where the exposed group are all those in Program 2

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
GROUP			
Amberley	-0.30	-0.49	0.10
Richmond	-0.23	-0.41	-0.04
Exposed (reference)	0.00		
AGE CATEGORY			
< 29yrs	-1.69	-2.31	-1.07
30-34yrs	-1.50	-2.00	-1.00
35-39yrs	-1.30	-1.76	-0.83
40-44yrs	-1.20	-1.63	-0.76
45-49yrs	-1.07	-1.50	-0.65
50-54yrs	-0.86	-1.30	-0.42
55-59yrs	-0.60	-1.05	-0.14
> 60yrs (reference)	0.00		
POSTING CATEGORY			
1980-1984	-0.07	-0.25	0.12
1985-1989	-0.05	-0.26	0.16
1990-1994	0.01	-0.26	0.27
1995-1999	0.16	-0.23	0.54
1975-1979 (reference)	0.00		
RANK CATEGORY			
Civilian	0.03	-0.49	0.54
Non Comm Officer	0.12	-0.05	0.28
Officer	0.02	-0.39	0.44
Unknown	-0.02	-0.93	0.90
Enlisted (reference)	0.00		
SMOKER CATEGORY			
Current smoker	0.18	0.00	0.36
Ex smoker	0.07	-0.08	0.22
Never smoked (reference)	0.00		

Appendix 14S continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
B.M.I.			
Obese	0.02	-0.18	0.21
Overweight	-0.14	-0.33	0.04
Normal weight (reference)	0.00		
ANXIETY			
Anxiety	0.36	0.13	0.59
No anxiety (reference)	0.00		
DEPRESSION			
Depression	0.74	0.43	1.04
No Depression (reference)	0.00		
OS EXPOSURE			
OS Exposure	-0.02	-0.18	0.13
No OS Exposure (reference)	0.00		
NT EXPOSURE			
NT exposure	0.27	0.06	0.47
No NT Exposure (reference)	0.00		

**Appendix 14T : Overall sexual function: Multiple linear regression where exposed
are classified by dose and contrasted to the unexposed**

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
EXPOSURE			
Mild exposure	0.14	-0.05	0.33
Moderate exposure	0.38	0.20	0.56
Prolonged exposure	0.28	0.11	0.46
Unexposed (reference)	0.00		
AGE CATEGORY			
< 29yrs	-1.35	-1.89	-0.81
30-34yrs	-1.40	-1.82	-0.97
35-39yrs	-1.20	-1.59	-0.81
40-44yrs	-1.05	-1.41	-0.70
45-49yrs	-0.97	-1.31	-0.62
50-54yrs	-0.74	-1.10	-0.39
55-59yrs	-0.47	-0.85	-0.10
> 60yrs (reference)	0.00		
POSTING CATEGORY			
1980-1984	-0.12	-0.28	0.04
1985-1989	-0.07	-0.25	0.12
1990-1994	-0.09	-0.33	0.16
1995-1999	-0.02	-0.35	0.31
1975-1979 (reference)	0.00		
RANK CATEGORY			
Civilian	-0.02	-0.51	0.46
Non Comm Officer	0.11	-0.04	0.26
Officer	0.02	-0.35	0.38
Unknown	0.20	-0.37	0.77
Enlisted (reference)	0.00		
SMOKER CATEGORY			
Current smoker	0.16	-0.00	0.31
Ex smoker	0.06	-0.06	0.19
Never smoked (reference)	0.00		

Appendix 14T continued...

EFFECT	ESTIMATE	95% CONFIDENCE LIMITS	
B.M.I.			
Obese	0.03	-0.14	0.20
Overweight	-0.15	-0.31	0.01
Normal weight (reference)	0.00		
ANXIETY			
Anxiety	0.40	0.20	0.59
No anxiety (reference)	0.00		
DEPRESSION			
Depression	0.55	0.30	0.80
No Depression (reference)	0.00		
OS EXPOSURE			
OS Exposure	-0.03	-0.17	0.10
No OS Exposure (reference)	0.00		
NT EXPOSURE			
NT exposure	0.25	0.07	0.43
No NT Exposure (reference)	0.00		

Appendix 14U : International Index of Erectile Function: internal consistency and factor structure

Item number	IIEF Questionnaire Items	Item Correlation with Total	Alpha = 0.97	Rotated Factor1	Rotated Factor2	Factor Classes: Rosen et al.
1	How often were you able to get an erection during sexual activity?	0.87	0.96	0.82	<i>0.40</i>	ED: Erectile dysfunction
2	When you had erections with sexual stimulation, how often were your erections hard enough for penetration?	0.88	0.96	0.85	<i>0.38</i>	ED: Erectile dysfunction
3	When you attempted sexual intercourse, how often were you able to penetrate your partner?	0.89	0.96	0.89	<i>0.36</i>	ED: Erectile dysfunction
4	During sexual intercourse, how often were you able to maintain your erection after you had penetrated your partner?	0.90	0.96	0.87	<i>0.39</i>	ED: Erectile dysfunction
5	During sexual intercourse, how difficult was it to maintain your erection to completion of intercourse?	0.90	0.96	0.85	<i>0.41</i>	ED: Erectile dysfunction
6	How many times have you attempted sexual intercourse?	0.60	0.97	<i>0.39</i>	<i>0.49</i>	IS: Intercourse satisfaction
7	When you attempted sexual intercourse, how often was it satisfactory for you?	0.91	0.96	0.79	<i>0.49</i>	IS: Intercourse satisfaction

Appendix 14U continued...

Item number	IIEF Questionnaire Items	Correlation with Total	Alpha = 0.967106	Rotated Factor1	Rotated Factor2	Factor Classes: Rosen et al.
8	How much have you enjoyed sexual intercourse?	0.89	0.96	0.72	<i>0.55</i>	IS: Intercourse satisfaction
9	When you had sexual stimulation or intercourse, how often did you ejaculate?	0.82	0.96	0.75	<i>0.40</i>	OF: Orgasmic function
10	When you had sexual stimulation or intercourse, how often did you have the feeling of orgasm or climax?	0.83	0.96	0.72	<i>0.44</i>	OF: Orgasmic function
11	How often have you felt sexual desire?	0.70	0.97	<i>0.36</i>	0.69	SD: Sexual desire
12	How would you rate your level of sexual desire?	0.66	0.97	<i>0.29</i>	0.72	SD: Sexual desire
13	How satisfied have you been with your overall sex life?	0.73	0.97	<i>0.32</i>	0.79	OS: Overall satisfaction
14	How satisfied have you been with your sexual relationship with your partner?	0.68	0.97	<i>0.34</i>	0.69	OS: Overall satisfaction
15	How do you rate your confidence that you could get and keep an erection?	0.76	0.97	<i>0.50</i>	0.60	ED: Erectile dysfunction

Key: **Strong factor score**, *Cross loading factor score*, **No cross loading**.

14.2 FEMALE REPRODUCTIVE HEALTH

Appendix 14V : Dichotomised pregnancy results (live birth vs other) and covariates by exposure group

	Amberley Live Births		Richmond Live Births		Exposed Live Births	
	N=351	%	N=492	%	N=484	%
RANK CATEGORY						
Civilian	0	0	0	0	20	4.0
Enlisted	264	75	346	70	307	63
Non-Comm. Officer	78	22	138	28	122	25
Officer	9	3.0	8	1.6	19	4.0
Unknown	0	0	0	0	16	3.3
POSTING CATEGORY						
1975-1979	155	44	210	43	202	42
1980-1984	98	28	158	32	133	27
1985-1989	62	18	81	16	93	19
1990-1994	27	8	31	6.3	37	7.6
1995-1999	9	2.6	12	2.4	19	3.9
DRINKER CATEGORY						
Reported alcohol intake for any pregnancy	102	29	149	30	98	20
No reported alcohol intake for any pregnancy	244	70	337	69	369	76
Unknown	5	1.4	6	1.2	17	3.5
SMOKER CATEGORY						
Smoker during any pregnancy	45	13	73	15	70	14
No smoking during any pregnancy	297	85	412	84	399	82
Unknown	9	2.6	7	1.4	15	3.1

Appendix 14V continued...

	Amberley Live Births		Richmond Live Births		Exposed Live Births	
	N=351	%	N=492	%	N=484	%
CAFFEINE CATEGORY						
Reported intake during any pregnancy	312	89	423	86	412	85
No reported intake during any pregnancy	35	10	64	13	57	12
Unknown	4	1.1	5	1.0	15	3.0

Appendix 14W : Live births vs still births and miscarriage: Multiple logistic regression summary for all exposed

EFFECT	ODDS RATIO	95% WALD CONFIDENCE LIMITS	
EXPOSURE GROUP			
Amberley comparison vs Exposed	1.13	0.75	1.72
Richmond comparison vs Exposed	0.92	0.65	1.30
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.05	0.71	1.54
1985-1989 vs 1975-1979	0.89	0.58	1.37
1990-1994 vs 1975-1979	0.74	0.40	1.35
1995-1999 vs 1975-1979	0.81	0.35	1.86
RANK CATEGORY			
Civilian vs Enlisted	2.15	0.59	7.84
Non Comm Officer vs Enlisted	1.25	0.87	1.81
Officer vs Enlisted	0.62	0.26	1.50
Unknown vs Enlisted	0.43	0.06	3.21
Maternal Age (years)	0.96	0.92	0.99
Alcohol intake - Yes vs No	1.37	0.95	1.98
Smoking – Yes vs No	0.56	0.36	0.87
Caffeine intake - Yes vs No	1.52	0.97	2.40

Appendix 14X : Live births vs still births and miscarriage: Most parsimonious model obtained by stepwise logistic regression for all exposed

EFFECT	ODDS RATIO	95% WALD CONFIDENCE LIMITS	
EXPOSURE GROUP			
Amberley comparison vs Exposed	1.14	0.75	1.74
Richmond comparison vs Exposed	0.96	0.67	1.36
Maternal Age (years)	0.96	0.93	0.99
Alcohol intake - Yes vs No	1.38	0.95	1.99
Smoking – Yes vs No	0.53	0.34	0.84
Caffeine intake - Yes vs No	1.57	0.97	2.52

Appendix 14Y : Live births vs still births and miscarriage: Multiple logistic regression where the exposed group are all those in Program 1

EFFECT	ODDS RATIO	95% WALD CONFIDENCE LIMITS	
EXPOSURE GROUP			
Amberley comparison vs Exposed	1.24	0.79	1.96
Richmond comparison vs Exposed	1.01	0.68	1.51
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.04	0.70	1.55
1985-1989 vs 1975-1979	0.79	0.47	1.32
1990-1994 vs 1975-1979	0.97	0.41	2.28
1995-1999 vs 1975-1979	0.75	0.23	2.43
RANK CATEGORY			
Civilian vs Enlisted**			
Non Comm Officer vs Enlisted	1.14	0.77	1.69
Officer vs Enlisted	0.60	0.24	1.54
Unknown vs Enlisted	0.34	0.04	2.74
Maternal Age (years)	0.96	0.93	1.00
Alcohol intake - Yes vs No	1.40	0.94	2.08
Smoking – Yes vs No	0.52	0.33	0.83
Caffeine intake - Yes vs No	0.38	0.85	2.24

*** Only one observation, therefore not included*

Appendix 14Z : Live births vs still births and miscarriage: Multiple logistic regression where the exposed group are all those in Program 2

EFFECT	ODDS RATIO	95% WALD CONFIDENCE LIMITS	
EXPOSURE GROUP			
Amberley comparison vs Exposed	0.87	0.50	1.51
Richmond comparison vs Exposed	0.71	0.43	1.17
POSTING CATEGORY			
1980-1984 vs 1975-1979	0.89	0.56	1.43
1985-1989 vs 1975-1979	0.72	0.44	1.16
1990-1994 vs 1975-1979	0.74	0.38	1.44
1995-1999 vs 1975-1979	0.69	0.21	2.22
RANK CATEGORY			
Civilian vs Enlisted	1.33	0.36	4.83
Non Comm Officer vs Enlisted	1.15	0.76	1.74
Officer vs Enlisted	0.82	0.28	2.45
Unknown vs Enlisted**			
Maternal Age (years)	0.95	0.91	0.98
Alcohol intake - Yes vs No	1.36	0.90	2.05
Smoking – Yes vs No	0.61	0.35	1.05
Caffeine intake - Yes vs No	1.05	0.59	1.87

*** Only two observations, therefore not included*

Appendix 14AA : Live births vs still births and miscarriage: Multiple logistic regression where exposed are classified by dose and contrasted to the unexposed

EFFECT	ODDS RATIO	95% WALD CONFIDENCE LIMITS	
EXPOSURE GROUP			
<9 months vs none	0.95	0.56	1.62
9-29 mths vs none	1.05	0.68	1.63
30-120 mths vs none	1.03	0.62	1.72
POSTING CATEGORY			
1980-1984 vs 1975-1979	1.04	0.71	1.54
1985-1989 vs 1975-1979	0.90	0.58	1.39
1990-1994 vs 1975-1979	0.75	0.40	1.38
1995-1999 vs 1975-1979	0.81	0.31	2.10
RANK CATEGORY			
Civilian vs Enlisted	1.84	0.48	7.09
Non Comm Officer vs Enlisted	1.23	0.84	1.81
Officer vs Enlisted	0.62	0.25	1.52
Unknown vs Enlisted	0.42	0.06	3.12
Maternal Age (years)	0.95	0.92	0.98
Alcohol intake - Yes vs No	1.36	0.94	1.98
Smoking – Yes vs No	0.56	0.35	0.87
Caffeine intake - Yes vs No	1.49	0.93	2.40