

Additional file 4: Analysis of other associations

Table A1. Unadjusted and adjusted ratio of geometric means (RGM) and 95% confidence intervals for association of factors with minutes of unprotected sun exposure (face, hands and arms) considered necessary for vitamin D adequacy in people with high sun sensitivity.

	Unadjusted				Adjusted*			
	RGM	95% CI		p	RGM	95% CI		p
		Lower	Upper			Lower	Upper	
Location <i>ref. all other</i>				0.538				
Major metropolitan centre with a medical school	0.98	0.91	1.05		1.01	0.93	1.11	0.745
Place of medical graduation				0.080				0.363
<i>Ref. NZ/Australia</i>								
US/UK/Other European	1.03	0.94	1.13		1.02	0.92	1.12	
SE Asian	0.80	0.63	1.01		0.85	0.67	1.08	
South African	0.98	0.81	1.19		0.97	0.80	1.18	
All others	0.80	0.64	0.99		0.84	0.67	1.05	
Sex <i>Ref. male</i>				0.137				0.697
Female	0.95	0.88	1.02		0.98	0.90	1.07	
Years as GP (<i>per 5 years</i>)	1.03	1.01	1.04	0.004	1.02	1.00	1.04	0.026
Latitude Band of practice				0.099				0.345
<i>Ref. 40-41.59°</i>								
Upper-North (34-36.59°)	0.96	0.86	1.07		0.97	0.87	1.09	
Mid-North (37-39.59°)	1.05	0.94	1.17		1.05	0.93	1.18	
Mid-South (42-44.59°)	1.11	0.98	1.25		1.08	0.95	1.23	
Lower-South (45-47°)	1.06	0.91	1.24		1.08	0.93	1.26	
Information sources read								
<i>Ref. none</i>								
CSNZ Position statement	0.88	0.81	0.96	0.005	0.90	0.82	0.99	0.026
WHO / IARC	0.96	0.81	1.14	0.652	1.02	0.86	1.23	0.791
Clinical Practice Guidelines	0.89	0.83	0.95	0.001	0.88	0.82	0.95	0.001
NHMRC	1.02	0.92	1.15	0.670	1.09	0.96	1.23	0.169
Any of the above	0.88	0.82	0.94	<0.001				
Number of sessions <i>Ref. ≥8</i>				0.215				0.195
1-3	1.11	0.98	1.26		1.12	0.99	1.27	
4-7	1.11	0.98	1.26		1.11	0.98	1.26	
Skin cancer training course				0.732				0.788
<i>Ref. no course completed</i>								
Completed course	0.98	0.90	1.08		0.99	0.90	1.09	

* Adjusted for all other variables listed in the table.

Table A2. Unadjusted and adjusted ratios of geometric means (RGM) and 95% confidence intervals for association of factors with minutes of unprotected sun exposure (face, hands and arms) considered necessary for vitamin D adequacy in people with low sun sensitivity.

	Unadjusted			<i>p</i>	Adjusted*			<i>p</i>
	<i>RGM</i>	95% <i>CI</i>			<i>RGM</i>	95% <i>CI</i>		
		Lower	Upper			Lower	Upper	
Location <i>Ref. all other</i>				0.336				0.375
Major metropolitan centre with a medical school	1.04	0.96	1.13		1.05	0.95	1.16	
Place of medical graduation <i>Ref. NZ/Australia</i>				0.011				0.014
US/UK/Other European	0.96	0.86	1.07		0.94	0.84	1.05	
SE Asian	0.81	0.62	1.04		0.80	0.61	1.04	
South African	0.84	0.67	1.05		0.85	0.68	1.06	
All others	0.68	0.53	0.88		0.69	0.53	0.89	
Sex <i>Ref. male</i>				0.728				0.633
Female	0.99	0.91	1.07		0.98	0.88	1.08	
Years as GP (<i>per 5 years</i>)	1.00	0.98	1.02	0.895	1.00	0.97	1.02	0.702
Latitude Band of practice <i>Ref. 40-41.59°</i>				0.292				0.713
Upper-North (34-36.59°)	0.96	0.85	1.09		0.99	0.87	1.12	
Mid-North (37-39.59°)	1.01	0.89	1.14		1.04	0.91	1.19	
Mid-South (42-44.59°)	1.11	0.96	1.28		1.07	0.92	1.24	
Lower-South (45-47°)	1.04	0.87	1.24		1.08	0.90	1.29	
Information sources read <i>Ref. none</i>								
CSNZ Position statement	0.96	0.87	1.06	0.430	0.95	0.85	1.06	0.353
WHO / IARC	1.16	0.96	1.41	0.121	1.25	1.02	1.54	0.033
Clinical Practice Guidelines	0.91	0.84	0.99	0.034	0.90	0.83	0.99	0.026
NHMRC	1.03	0.91	1.17	0.623	1.06	0.92	1.21	0.446
Any of the above	0.91	0.84	0.99	0.027				
Number of sessions <i>Ref. ≥8</i>				0.373				0.346
1-3	1.10	0.96	1.27		1.11	0.96	1.28	
4-7	1.06	0.92	1.22		1.07	0.93	1.24	
Skin cancer training course <i>Ref. no course completed</i>				0.321				0.560
Completed course	0.95	0.85	1.05		0.97	0.86	1.08	

* Adjusted for all other variables listed in the table.

Table A3. Factors associated with 'quality' of summer sun protection advice for the general population, unadjusted and adjusted odds ratios (OR) and 95% confidence intervals (CI).

	Unadjusted			Adjusted *			p
	OR	95% CI		OR	(95% CI)		
		Upper	Lower	p	Upper	Lower	
Location Ref. 'all other'				0.550			0.699
Major metropolitan centre with a medical school	0.92	0.71	1.20		0.94	0.67 1.31	
Place of medical graduation							
<i>Ref. NZ/Australia</i>				0.071			0.014
US/UK/Other European	1.38	0.95	2.01		1.54	1.04 2.29	
SE Asian	0.61	0.29	1.29		0.51	0.23 1.13	
South African	0.56	0.29	1.09		0.55	0.28 1.09	
All other	0.82	0.38	1.77		0.62	0.28 1.38	
Sex Ref. male				0.344			0.698
Female	1.14	0.87	1.48		1.07	0.77 1.48	
Years as a GP per 5 years	0.89	0.83	0.95	<0.001	0.86	0.80 0.93	<0.001
Latitude band of practice				0.950			0.883
<i>Ref. 40-41.59°</i>							
Upper-North (34-36.59°)	0.98	0.66	1.44		1.01	0.66 1.56	
Mid-North (37-39.59°)	1.01	0.67	1.52		0.95	0.60 1.49	
Mid-South (42-44.59°)	0.85	0.54	1.34		0.82	0.51 1.32	
Lower-South (45-47°)	0.97	0.55	1.69		0.90	0.50 1.61	
Information sources read							
CSNZ position statement	1.27	0.90	1.79	0.167	1.33	0.92 1.92	0.132
WHO / IARC	0.77	0.42	1.41	0.395	0.85	0.44 1.65	0.634
Clinical practice guidelines	1.28	0.98	1.68	0.070	1.33	0.99 1.79	0.061
NHMRC	1.00	0.66	1.52	0.998	0.87	0.55 1.38	0.564
Any of the above	1.38	1.06	1.80	0.016			
Number of sessions Ref. ≥8				0.542			0.250
1-3	1.15	0.74	1.79		1.13	0.72 1.79	
4-7	1.26	0.82	1.94		1.41	0.89 2.26	
Skin cancer training course							
<i>Ref. no course completed</i>				0.605			0.620
Completed course	1.10	0.77	1.56		1.10	0.76 1.60	

* Adjusted for all other variables listed in the table.

Table A4. Factors associated with quality of winter sun protection advice for the general population, unadjusted and adjusted odds ratios (OR) and 95% confidence intervals (CI).

	Unadjusted			Adjusted			p	
	OR	95% CI		OR	(95% CI)			
		Upper	Lower		Upper	Lower		
Location <i>Ref. 'all other'</i>								
Major metropolitan centre with a medical school	1.02	0.80	1.29	0.884	1.01	0.74	1.36	0.963
Place of medical graduation				0.680				0.568
<i>Ref NZ/Australia</i>								
US/UK/Other European	1.10	0.80	1.52		1.13	0.81	1.58	
SE Asian	1.52	0.72	3.24		1.62	0.74	3.54	
South African	1.35	0.70	2.63		1.42	0.72	2.78	
All other	0.88	0.42	1.83		0.87	0.41	1.83	
Sex <i>Ref. male</i>								
Female	1.14	0.89	1.45	0.294	1.12	0.84	1.50	0.429
Years as a GP <i>per 5 years</i>	0.98	0.93	1.04	0.571	0.99	0.93	1.06	0.816
Latitude band of practice				0.359				0.417
<i>Ref. 40-41.59°</i>								
Upper-North (34-36.59°)	1.23	0.86	1.75		1.19	0.81	1.74	
Mid-North (37-39.59°)	1.03	0.72	1.49		1.01	0.68	1.51	
Mid-South (42-44.59°)	1.00	0.66	1.52		0.94	0.61	1.45	
Lower-South (45-47°)	0.77	0.46	1.27		0.75	0.44	1.26	
Information sources read								
CSNZ position statement	0.96	0.71	1.29	0.788	0.94	0.68	1.30	*
WHO / IARC	0.88	0.50	1.56	0.663	0.73	0.39	1.36	*
Clinical practice guidelines	1.16	0.91	1.48	0.224	1.10	0.85	1.44	*
NHMRC	1.41	0.96	2.07	0.082	1.41	0.93	2.15	*
Any of the above	1.13	0.88	1.43	0.338				
Number of sessions <i>Ref. ≥8</i>				0.750				0.819
1-3	1.03	0.68	1.56		1.06	0.69	1.62	
4-7	0.93	0.62	1.39		0.96	0.63	1.48	
Skin cancer training course								
<i>Ref. no course completed</i>								
Completed course	0.91	0.66	1.25	0.560	0.91	0.65	1.26	0.560