

Table S2. Ratios corresponding to skin cancer risk for each demographic and environmental variables.

Values are expressed as relative risk (RR) of variable found in disease versus healthy control											Hair				Skin Appearance		Sunscreen use			Exposure			
	Age	Male Sex	Skin: Fair	Skin: Light Olive	Skin: Dark Olive	Skin: Brown	Mild/occasional Tan	Moderate Tan	Strong/frequent Tan	Childhood Sunburns	Blonde	Light Brown	Dark Brown	Black	Age-matched Appearance	Older Appearance	Sometimes	Most of the time	Always	No outdoor exposure	Annual Sunlamp Visits	Daily Hours Spent Outdoors	Daily Hours Spent Outdoors (Winter)
BCC	1.031736	1.230265	0.727386	0.476621	0.460377	0.502446	0.819101	0.749394	0.657134	1.031848	0.744668	0.681603	0.552734	0.631684	1.078295	0.78878	1.315135	1.787393	2.402969	1.26024	0.973708	1.053163	1.038386
cSCC	1.119279	1.971642	0.61838	0.333618	0.263341	9.41E-73	0.721631	0.626581	0.586538	1.032178	0.682202	0.479205	0.383558	0.633368	1.262964	1.283703	1.238767	1.51585	2.256411	1.846216	0.978829	1.08204	1.080678
MMinsitu	1.020726	0.828783	0.804794	0.553287	0.652044	0.457656	0.812851	0.690063	0.589309	1.032827	0.599882	0.533018	0.443554	0.564571	0.909932	0.892441	1.871008	2.600176	3.580192	1.548781	0.989828	1.011001	0.999402
MMinvasive	0.968732	0.868348	0.576765	0.30065	0.169394	0.366801	0.856938	0.606841	0.484805	1.032557	0.723628	0.476645	0.346359	0.270559	1.072664	0.868433	1.363966	2.241589	3.921962	4.322825	0.964349	1.002978	0.997636
P-values for relative risk ratios calculated using the Wald test																							
	Age	Male Sex	Fair	Light Olive	Dark Olive	Brown	Mild/occasional Tan	Moderate Tan	Strong/frequent Tan	Childhood Sunburns	Blonde	Light Brown	Dark Brown	Black	Age-matched Appearance	Older Appearance	Sometimes	Most of the time	Always	No outdoor exposure	Annual Sunlamp Visits	Daily Hours Spent Outdoors	Daily Hours Spent Outdoors (Winter)
BCC	0	0	0	0	0	8.69E-07	0	0	0	0	2.89E-15	0	0	0	5.36E-05	0.000268	2.75E-13	0	0	0.068186	3.49E-14	0	0
cSCC	0	0	6.66E-15	0	8.80E-08	NA	1.28E-07	0	4.44E-16	0	1.50E-05	0	0	3.62E-05	1.72E-06	0.080632	0.027077	1.14E-05	0	0.025068	0.014231	0	1.11E-15
MMinsitu	2.18E-08	0.001711	0.026707	1.16E-06	0.108709	0.181331	0.017999	2.54E-06	3.63E-08	0	0.000104	2.02E-08	1.35E-12	0.000597	0.198883	0.616852	0.00017	4.74E-09	1.09E-14	0.404201	0.297614	0.377909	0.970791
MMinvasive	0	1.92E-05	0	0	3.06E-14	0.001023	0.000871	0	0	0	1.16E-06	0	0	0	0.072634	0.279127	0.000568	0	0	4.44E-16	2.03E-05	0.668178	0.794248

BCC was positively correlated with male sex (RR=1.23) and frequent use of sunscreen (RR=2.40); and inversely correlated with light olive, dark olive or brown skin (RR=0.47~0.50), ease of tanning (RR=0.66), dark brown hair (RR=0.5), and older than expected appearance (RR = 0.79). cSCC was positively correlated with male sex (RR=1.97), older-than-expected appearance (RR=1.28), frequent (“always”) use of sunscreen (RR=2.26); and inversely correlated with light olive, dark olive or brown skin (RR<0.33), ease of tanning (RR=0.58), as well as light brown, blonde, dark brown hair and black hair (RR=0.38~0.68). M-is was directly correlated occasional, frequent and very frequent use of sunscreen (RR=1.87~3.58); and inversely correlated with light olive, dark olive and brown skin (RR=0.46~0.65), blonde, light brown, dark brown and black hair (RR<0.60), and ease of tanning (RR=0.59). M-inv was positively correlated with occasional, frequent and very frequent use of sunscreen (RR=1.36~3.92); and inversely correlated with fair, light olive, dark olive and brown skin (RR=0.17~0.58), as well as blonde, light brown, dark brown and black hair (RR=0.27~0.72).