

**Supplementary table S1. The logistic regression analysis and consequent Odds Ratios for subjects with any skin cancer compared to control subjects without skin cancer in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
Pack years:						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	0.93	0.549-1.560	0.772	0.93	0.478-1.799	0.824
<i>&gt;10 TPY</i>	1.56	0.954-2.561	0.076	1.21	0.660-2.234	0.533
PAASI score	1.01	1.007-1.016	<.001	1.00	0.995-1.008	0.618
Age	1.05	1.034-1.065	<.001	1.05	1.026-1.070	<.001
Gender:						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.95	0.662-1.349	0.754	0.89	0.502-1.591	0.703
BMI	1.02	0.984-1.062	0.263	1.01	0.959-1.053	0.840
Lifetime sun exposure:						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.06	0.642-1.760	0.812	1.22	0.647-2.309	0.537
<i>Often</i>	1.27	0.745-2.152	0.384	1.19	0.580-2.440	0.637
<i>Very often</i>	1.82	0.956-3.457	0.068	2.56	0.997-6.550	0.051
Main working environment:						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	0.68	0.329-1.394	0.290	1.01	0.385-2.622	0.992
<i>Both variably</i>	0.68	0.313-1.483	0.334	0.87	0.322-2.363	0.788
Lifetime sunburns:						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.03	0.684-1.547	0.894	1.27	0.755-2.120	0.372
<i>Often</i>	1.96	1.164-3.287	0.011	1.70	0.813-3.549	0.158
Solarium:						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.11	0.721-1.706	0.638	1.09	0.619-1.907	0.772
<i>31-100</i>	0.52	0.244-1.100	0.087	0.41	0.149-1.149	0.090
UV light treatment:						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.78	0.802-3.961	0.156	1.88	0.687-5.130	0.219
<i>31-100</i>	0.73	0.251-2.115	0.561	0.66	0.186-2.310	0.511
Skin phototype (Fitzpatrick):						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.80	0.326-1.955	0.623	1.63	0.554-4.784	0.375
<i>3</i>	0.58	0.239-1.407	0.228	1.31	0.430-3.982	0.636
<i>4</i>	0.93	0.266-3.244	0.908	1.56	0.327-7.479	0.575
Immunosuppression:						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.44	0.280-0.691	<.001	0.42	0.233-0.753	0.004
Hemoglobin count	1.00	0.988-1.018	0.699	1.00	0.976-1.019	0.820
Leukocyte count	1.04	0.938-1.156	0.448	8.14	0.375-176.439	0.182
Monocyte count	1.25	0.334-4.694	0.739	0.04	0.001-1.267	0.068
Lymphocyte count	1.21	0.923-1.584	0.167	0.16	0.007-3.588	0.247
Neutrophil count	0.97	0.902-1.038	0.356	0.13	0.006-2.812	0.192
Basophile count	2.30	0.068-77.985	0.643	0.29	0.002-38.152	0.616
Eosinophile count	1.19	0.421-3.378	0.741	0.14	0.005-4.104	0.256

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S2. The logistic regression analysis and consequent Odds Ratios for subjects with a history of basal cell carcinoma compared to control subjects without basal cell carcinoma in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
<b>Pack years:</b>						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	1.21	0.718-2.052	0.469	1.27	0.656-2.475	0.474
<i>&gt;10 TPY</i>	1.54	0.964-2.471	0.071	1.10	0.608-2.007	0.745
PAASI score	1.01	1.005-1.014	<.001	1.00	0.995-1.007	0.762
Age	1.06	1.038-1.073	<.001	1.06	1.035-1.084	<.001
<b>Gender:</b>						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.91	0.641-1.303	0.619	0.70	0.394-1.258	0.236
BMI	1.00	0.959-1.033	0.807	0.97	0.922-1.021	0.249
<b>Lifetime sun exposure:</b>						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.06	0.631-1.776	0.828	1.32	0.678-2.570	0.415
<i>Often</i>	1.40	0.820-2.394	0.218	1.65	0.790-3.466	0.182
<i>Very often</i>	1.68	0.899-3.126	0.104	3.13	1.240-7.920	0.016
<b>Main working environment:</b>						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	1.07	0.534-2.124	0.859	2.00	0.769-5.197	0.156
<i>Both variably</i>	1.07	0.505-2.260	0.862	1.58	0.588-4.254	0.364
<b>Lifetime sunburns:</b>						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.77	0.507-1.157	0.205	0.87	0.512-1.468	0.595
<i>Often</i>	1.23	0.756-2.014	0.401	1.03	0.498-2.135	0.935
<b>Solarium:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.07	0.699-1.629	0.764	0.95	0.542-1.659	0.851
<i>31-100</i>	0.50	0.214-1.141	0.099	0.48	0.161-1.419	0.184
<b>UV light treatment:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	2.09	0.998-4.373	0.051	2.99	1.168-7.651	0.022
<i>31-100</i>	0.84	0.276-2.543	0.755	2.00	0.308-3.911	0.886
<b>Skin phototype (Fitzpatrick):</b>						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.86	0.366-2.004	0.720	0.75	0.259-2.152	0.588
<i>3</i>	0.80	0.342-1.854	0.598	0.71	0.237-2.140	0.545
<i>4</i>	0.79	0.237-2.621	0.697	0.46	0.096-2.143	0.319
<b>Immunosuppression:</b>						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.61	0.380-0.972	0.038	0.62	0.336-1.152	0.131
Hemoglobin count	0.99	0.978-1.008	0.338	1.00	0.967-1.011	0.314
Leukocyte count	1.02	0.921-1.131	0.697	1.99	0.090-43.955	0.663
Monocyte count	0.93	0.250-3.471	0.916	0.12	0.003-4.048	0.236
Lymphocyte count	1.18	0.909-1.529	0.213	0.74	0.032-16.965	0.849
Neutrophile count	0.96	0.882-1.053	0.415	0.52	0.023-11.719	0.682
Basophile count	1.01	0.030-33.474	0.998	0.77	0.006-96.172	0.915
Eosinophile count	1.20	0.439-3.249	0.727	0.62	0.020-18.891	0.785

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S3. The logistic regression analysis and consequent Odds Ratios for subjects with a history of melanoma compared to control subjects without melanoma in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
Pack years:						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	0.74	0.378-1.455	0.384	0.84	0.363-1.924	0.673
<i>&gt;10 TPY</i>	0.71	0.387-1.317	0.281	0.82	0.383-1.765	0.615
PAASI score	1.00	0.999-1.008	0.160	1.00	0.996-1.010	0.426
Age	1.01	0.989-1.022	0.509	1.02	0.991-1.045	0.188
Gender:						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.91	0.591-1.407	0.677	1.31	0.628-2.711	0.475
BMI	1.02	0.981-1.069	0.283	1.03	0.977-1.089	0.263
Mole count:						
0-20	Ref.			Ref.		
21-50	2.56	1.469-4.448	<.001	3.56	1.737-7.291	<.001
51-100	2.77	1.501-5.120	0.001	3.53	1.589-7.830	0.002
>100	2.28	1.412-5.477	0.003	3.83	1.626-9.033	0.002
Lifetime sun exposure:						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.75	0.404-1.377	0.348	0.65	0.297-1.409	0.272
<i>Often</i>	0.76	0.401-1.450	0.409	0.56	0.233-1.357	0.200
<i>Very often</i>	1.15	0.564-2.352	0.699	1.00	0.364-2.760	0.996
Main working environment:						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	0.49	0.235-1.032	0.060	0.61	0.213-1.766	0.364
<i>Both variably</i>	0.52	0.227-1.171	0.113	0.69	0.232-2.069	0.511
Lifetime sunburns:						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.30	0.762-2.218	0.336	1.40	0.719-2.706	0.325
<i>Often</i>	1.95	1.071-3.551	0.029	1.68	0.690-4.107	0.253
Solarium:						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.15	0.693-1.914	0.586	1.11	0.573-2.130	0.766
<i>31-100</i>	1.00	0.393-2.530	0.994	0.81	0.235-2.780	0.735
UV light treatment:						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	0.40	0.118-1.339	0.137	0.26	0.057-1.219	0.088
<i>31-100</i>	0.62	0.136-2.817	0.536	0.30	0.035-2.557	0.271
Skin phototype (Fitzpatrick):						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.43	0.176-1.052	0.064	0.84	0.242-2.926	0.786
<i>3</i>	0.37	0.152-0.903	0.029	0.75	0.203-2.750	0.661
<i>4</i>	0.71	0.202-2.528	0.602	1.93	0.350-10.617	0.451
Immunosuppression:						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.39	0.196-0.786	0.008	0.37	0.148-0.912	0.031
Hemoglobin count	1.02	0.998-1.035	0.076	1.01	0.985-1.041	0.377
Leukocyte count	1.01	0.894-1.148	0.835	8.20	0.214-313.497	0.258
Monocyte count	1.15	0.233-5.649	0.865	0.35	0.005-23.468	0.625
Lymphocyte count	0.85	0.606-1.187	0.336	0.08	0.002-3.194	0.178
Neutrophile count	1.00	0.928-1.068	0.902	0.13	0.003-4.851	0.265
Basophile count	1.85	0.027-127.976	0.775	0.71	0.002-244.004	0.908
Eosinophile count	0.54	0.113-2.557	0.435	0.03	0.000-1.841	0.095

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S4. The logistic regression analysis and consequent Odds Ratios for subjects with PAASI score over median compared to control subjects with PAASI score below or equal to median in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
<b>Pack years:</b>						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	1.52	0.903-2.571	0.115	1.15	0.557-2.388	0.700
<i>&gt;10 TPY</i>	1.54	0.960-2.479	0.073	0.92	0.484-1.746	0.798
Age	1.10	1.079-1.125	<.001	1.11	1.081-1.141	<.001
<b>Gender:</b>						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.63	0.441-0.893	0.010	1.02	0.543-1.910	0.955
BMI	0.98	0.939-1.012	0.181	0.94	0.887-0.993	0.027
<b>Lifetime sun exposure:</b>						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.17	0.707-1.948	0.535	1.45	0.713-2.938	0.306
<i>Often</i>	1.65	0.971-2.811	0.064	1.38	0.624-3.044	0.427
<i>Very often</i>	2.24	1.195-4.206	0.012	2.85	1.045-7.784	0.041
<b>Main working environment:</b>						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	0.46	0.225-0.936	0.032	1.14	0.423-3.068	0.797
<i>Both variably</i>	0.80	0.371-1.734	0.576	1.24	0.439-3.477	0.690
<b>Lifetime sunburns:</b>						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.66	0.438-0.994	0.047	0.79	0.452-1.384	0.412
<i>Often</i>	1.30	0.789-2.131	0.305	2.01	0.901-4.473	0.088
<b>Solarium:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.12	0.732-1.701	0.610	1.69	0.922-3.110	0.089
<i>31-100</i>	0.83	0.388-1.779	0.634	0.96	0.313-2.966	0.949
<b>UV light treatment:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	2.01	0.942-4.306	0.071	2.07	0.736-5.840	0.167
<i>31-100</i>	1.48	0.504-4.329	0.477	1.73	0.422-7.064	0.447
<b>Skin phototype (Fitzpatrick):</b>						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.77	0.325-1.833	0.558	1.19	0.375-3.746	0.772
<i>3</i>	0.93	0.395-2.200	0.874	1.56	0.465-5.222	0.473
<i>4</i>	1.26	0.371-4.287	0.711	1.53	0.290-8.105	0.616
<b>Immunosuppression:</b>						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.70	0.446-1.104	0.125	0.81	0.427-1.552	0.533
Hemoglobin count	1.01	0.994-1.024	0.229	1.01	0.982-1.032	0.605
Leukocyte count	1.05	0.949-1.165	0.337	0.88	0.469-1.659	0.696
Monocyte count	9.85	2.477-39.196	0.001	7.64	0.701-83.164	0.095
Lymphocyte count	0.96	0.744-1.243	0.765	1.01	0.469-2.175	0.979
Neutrophile count	1.05	0.954-1.154	0.322	1.12	0.607-2.050	0.726
Basophile count	7.40	0.230-237.272	0.258	15.86	0.105-2389.402	0.280
Eosinophile count	1.08	0.397-2.909	0.887	0.46	0.061-3.446	0.448

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S5. The logistic regression analysis and consequent Odds Ratios for subjects with facial photoaging score 3-4 compared to control subjects with score 0-2 in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
<b>Pack years:</b>						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	1.80	1.042-3.109	0.035	1.22	0.571-2.596	0.611
<i>&gt;10 TPY</i>	1.75	1.067-2.882	0.027	1.09	0.551-2.156	0.806
Age	1.15	1.109-1.183	<.001	1.14	1.098-1.184	<.001
<b>Gender:</b>						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.59	0.399-0.870	0.008	1.22	0.619-2.404	0.566
BMI	1.03	0.987-1.068	0.188	1.03	0.973-1.082	0.348
<b>Lifetime sun exposure:</b>						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.74	0.430-1.255	0.259	0.70	0.335-1.470	0.347
<i>Often</i>	0.70	0.400-1.234	0.219	0.59	0.260-1.350	0.213
<i>Very often</i>	0.78	0.404-1.507	0.460	0.76	0.271-2.136	0.604
<b>Main working environment:</b>						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	0.56	0.274-1.129	0.104	1.40	0.502-3.901	0.520
<i>Both variably</i>	1.01	0.472-2.152	0.984	1.55	0.540-4.473	0.414
<b>Lifetime sunburns:</b>						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.73	0.467-1.128	0.154	0.92	0.499-1.681	0.778
<i>Often</i>	0.81	0.479-1.380	0.443	1.35	0.583-3.135	0.483
<b>Solarium:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	0.54	0.328-0.895	0.017	0.67	0.342-1.299	0.233
<i>31-100</i>	0.63	0.264-1.517	0.305	0.85	0.249-2.876	0.788
<b>UV light treatment:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.56	0.736-3.312	0.246	1.36	0.512-3.587	0.541
<i>31-100</i>	0.67	0.185-2.457	0.550	0.32	0.053-1.925	0.214
<b>Skin phototype (Fitzpatrick):</b>						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.71	0.296-1.722	0.454	0.78	0.232-2.641	0.693
<i>3</i>	0.61	0.255-1.468	0.271	0.75	0.209-2.667	0.653
<i>4</i>	0.90	0.261-3.088	0.864	0.73	0.126-4.213	0.724
<b>Immunosuppression:</b>						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.77	0.463-1.279	0.313	0.73	0.351-1.521	0.401
Hemoglobin count	1.00	0.987-1.019	0.688	1.01	0.985-1.037	0.412
Leukocyte count	1.12	1.004-1.251	0.043	1.14	0.683-1.901	0.617
Monocyte count	13.21	3.245-53.788	<.001	2.80	0.254-30.762	0.401
Lymphocyte count	1.14	0.864-1.496	0.359	0.75	0.378-1.481	0.404
Neutrophile count	1.00	0.949-1.062	0.892	0.94	0.585-1.502	0.787
Basophile count	4.75	0.110-205.158	0.417	2.92	0.015-582.871	0.691
Eosinophile count	1.24	0.436-3.503	0.691	0.24	0.031-1.817	0.166

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S6. The logistic regression analysis and consequent Odds Ratios for subjects with one or more actinic keratoses compared to control subjects without actinic keratosis in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
<b>Pack years:</b>						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	2.17	1.279-3.679	0.004	1.39	0.624-3.074	0.423
<i>&gt;10 TPY</i>	1.21	0.754-1.939	0.430	0.56	0.279-1.124	0.103
Age	1.15	1.118-1.182	<.001	1.16	1.119-1.202	<.001
<b>Gender:</b>						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.43	0.301-0.619	<.001	0.53	0.268-1.034	0.062
BMI	1.05	1.006-1.086	0.023	1.04	0.988-1.098	0.128
<b>Lifetime sun exposure:</b>						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.75	0.455-1.250	0.274	0.72	0.333-1.562	0.406
<i>Often</i>	1.07	0.634-1.810	0.798	0.82	0.345-1.941	0.648
<i>Very often</i>	0.85	0.459-1.577	0.607	0.93	0.314-2.728	0.889
<b>Main working environment:</b>						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	0.25	0.119-0.521	<.001	0.43	0.147-1.275	0.128
<i>Both variably</i>	0.54	0.246-1.197	0.130	0.64	0.206-1.965	0.432
<b>Lifetime sunburns:</b>						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.65	0.429-0.973	0.037	0.91	0.494-1.668	0.756
<i>Often</i>	0.82	0.504-1.343	0.435	1.58	0.671-3.701	0.297
<b>Solarium:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	0.94	0.616-1.435	0.774	1.88	0.976-3.631	0.059
<i>31-100</i>	0.83	0.387-1.768	0.624	2.25	0.709-7.137	0.169
<b>UV light treatment:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	2.40	1.123-5.134	0.024	2.42	0.830-7.078	0.106
<i>31-100</i>	0.53	0.163-1.711	0.287	0.32	0.064-1.587	0.162
<b>Skin phototype (Fitzpatrick):</b>						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	0.72	0.310-1.691	0.456	1.07	0.302-3.750	0.922
<i>3</i>	0.79	0.341-1.834	0.584	1.60	0.425-6.005	0.487
<i>4</i>	0.82	0.249-2.690	0.741	0.96	0.155-5.866	0.960
<b>Immunosuppression:</b>						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.54	0.337-0.863	0.010	0.58	0.285-1.187	0.136
Hemoglobin count	1.01	0.997-1.027	0.126	1.01	0.982-1.035	0.537
Leukocyte count	1.12	1.010-1.243	0.031	1.18	0.883-1.569	0.266
Monocyte count	11.07	2.843-43.106	<.001	1.19	0.097-14.625	0.891
Lymphocyte count	1.09	0.840-1.406	0.526	1.20	0.697-2.072	0.509
Neutrophile count	1.00	0.947-1.055	0.987	0.95	0.775-1.173	0.654
Basophile count	1.21	0.037-38.900	0.916	0.11	0.000-22.634	0.411
Eosinophile count	1.25	0.460-3.409	0.659	0.14	0.017-1.180	0.071

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.

**Supplementary table S7. The logistic regression analysis and consequent Odds Ratios for subjects with over 50 moles compared to control subjects with 0-50 moles in 488 subjects at Kuopio University Hospital between May 2017 and October 2020.**

Variable	Simple Odds Ratio	95% Confidence interval	P value	Multivariable Odds Ratio	95% Confidence interval	P value
<b>Pack years:</b>						
<i>Never smoker</i>	Ref., 1			Ref., 1		
<i>≤10 TPY</i>	0.79	0.441-1.426	0.439	1.32	0.637-2.739	0.455
<i>&gt;10 TPY</i>	0.49	0.273-0.888	0.019	0.86	0.419-1.763	0.680
PAASI score	0.99	0.984-0.994	<.001	1.01	0.998-1.011	0.194
Age	0.94	0.925-0.955	<0.001	0.93	0.903-0.947	<.001
<b>Gender:</b>						
<i>Male</i>	Ref., 1			Ref., 1		
<i>Female</i>	0.94	0.639-1.395	0.774	0.75	0.375-1.482	0.402
BMI	1.02	0.982-1.064	0.285	1.06	1.011-1.120	0.017
<b>Lifetime sun exposure:</b>						
<i>Very seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	0.79	0.453-1.371	0.400	0.45	0.216-0.953	0.037
<i>Often</i>	0.81	0.452-1.440	0.467	0.53	0.232-1.188	0.122
<i>Very often</i>	0.95	0.488-1.857	0.885	0.72	0.266-1.950	0.519
<b>Main working environment:</b>						
<i>Outdoors</i>	Ref., 1			Ref., 1		
<i>Indoors</i>	1.54	0.680-3.481	0.301	0.53	0.189-1.499	0.233
<i>Both variably</i>	1.10	0.453-2.686	0.829	0.57	0.190-1.692	0.309
<b>Lifetime sunburns:</b>						
<i>Seldom</i>	Ref., 1			Ref., 1		
<i>Occasionally</i>	1.92	1.188-3.097	0.008	1.85	0.993-3.461	0.053
<i>Often</i>	1.48	0.830-2.625	0.185	1.12	0.481-2.624	0.788
<b>Solarium:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	1.53	0.968-2.404	0.069	1.76	0.946-3.289	0.074
<i>31-100</i>	1.26	0.556-2.845	0.583	0.85	0.274-2.618	0.774
<b>UV light treatment:</b>						
<i>Never</i>	Ref., 1			Ref., 1		
<i>0-30</i>	0.48	0.179-1.277	0.141	0.53	0.158-1.772	0.302
<i>31-100</i>	0.18	0.024-1.420	0.104	0.17	0.018-1.548	0.115
<b>Skin phototype (Fitzpatrick):</b>						
<i>1</i>	Ref., 1			Ref., 1		
<i>2</i>	1.07	0.420-2.702	0.893	0.82	0.246-2.750	0.751
<i>3</i>	0.84	0.331-2.121	0.709	0.87	0.251-3.013	0.826
<i>4</i>	0.81	0.212-3.096	0.757	1.20	0.215-6.710	0.835
<b>Immunosuppression:</b>						
<i>Non-IS</i>	Ref., 1			Ref., 1		
<i>IS</i>	0.43	0.236-0.770	0.005	0.30	0.138-0.651	0.002
Hemoglobin count	1.01	0.997-1.030	0.102	1.01	0.983-1.036	0.493
Leukocyte count	0.89	0.785-0.997	0.044	0.88	0.467-1.671	0.703
Monocyte count	0.19	0.041-0.924	0.040	0.68	0.054-8.498	0.765
Lymphocyte count	0.81	0.593-1.095	0.167	0.78	0.354-1.733	0.546
Neutrophile count	1.02	0.967-1.080	0.443	1.13	0.614-2.067	0.701
Basophile count	0.17	0.003-8.201	0.366	0.03	0.000-7.623	0.214
Eosinophile count	0.68	0.193-2.418	0.554	1.56	0.395-6.174	0.525

In multivariable analysis, all variables were simultaneously present in the analysis.

TPY, tobacco pack years; PAASI, PhotoAging Area and Severity Index; BMI, body mass index; UV, ultraviolet; IS, immunosuppression; Ref., reference.