## Table SI. Relation between overall Dermatitis Family Impact and demographic characteristics, healthrelated quality of life (HRQoL) and RAND36 in univariate and multivariate models

	Dermatitis Family Impact					
Variables	Univariate model			Multivariate model		_
	IRR	95% CI	<i>p</i> -value	IRR	95% CI	<i>p</i> -value
Age of child, years	0.99	[0.97, 1.00]	0.038	0.97	[0.96, 0.99]	0.002
Sex of child						
Male	1 (Ref)					
Female	0.95	[0.84, 1.07]	0.386	0.93	[0.83, 1.05]	0.236
Ethnicity						
Chinese	1 (Ref)					
Indian	1.24	[1.05, 1.45]	0.009	1.13	[0.96, 1.31]	0.133
Malay	1.15	[0.86, 1.55]	0.349	1.02	[0.80, 1.30]	0.865
Caucasian and others	1.43	[1.17, 1.75]	< 0.001	1.33	[1.10, 1.60]	0.003
Qualification						
Polytechnic and professional	1 (Ref)					
Primary and secondary	1.01	[0.85, 1.20]	0.896	0.88	[0.76, 1.02]	0.099
University	0.87	[0.76, 1.00]	0.053	0.99	[0.87, 1.14]	0.93
Children in family, n	1.02	[0.94, 1.11]	0.679	0.99	[0.91, 1.06]	0.712
Accommodation						
Government flat 1–3 rooms	1 (Ref)					
Government flat 4–5 rooms	0.81	[0.69, 0.95]	0.011	0.91	[0.78, 1.06]	0.235
Private housing (condominium, landlord)	0.68	[0.56, 0.83]	< 0.001	0.81	[0.66, 0.99]	0.04
Disease duration, years	1.00	[0.99, 1.02]	< 0.001	1.02	[1.00, 1.04]	0.019
Severity						
Mild	1 (Ref)					
Moderate	1.38	[1.20, 1.59]	< 0.001	1.23	[1.09, 1.40]	0.001
Severe	1.50	[1.26, 1.79]	< 0.001	1.26	[1.06, 1.49]	0.008
HRQoL	1.06	[1.05, 1.07]	< 0.001	1.04	[1.03, 1.05]	< 0.001
RAND 36						
Physical health	0.98	[0.97, 0.98]	< 0.001	0.99	[0.98, 0.99]	< 0.001
Mental health	0.98	[0.98, 0.99]	< 0.001	0.99	[0.99, 0.99]	< 0.001

\*Missing data: Disease severity, n = 46; Living accommodation, n = 2. Dermatitis Family Impact (DFI): The score ranges from 0 to 30. A higher score indicates a greater degree of QOL impairment. HRQoL: disease-specific HRQoL of patients with AD was measured using Infants' Dermatitis Quality of Life Index (IDQOL) and Children's Dermatology Life Quality Index (CDLQI). IRR: incidence rate ratio; CI: confidence interval.