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Validation of a sensitive skin screening questionnaire in a Southeast Asian population

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SUPPLEMENTARY MATERIAL

Supplementary Table 1. Baseline characteristics of the study population.

Characteristics		**LAST-positive (n=122)**	**LAST-negative (n=76)**	**Overall**	**p-value**
Sex	Male	36 (51.4)	34 (48.6)	70 (100.0)	0.029*
	Female	86 (67.2)	42 (32.8)	128 (100.0)	
Age (years)	mean ± SD	34.3±11.4	33.9±11.0	34.2±11.3	0.807
	18-24	28 (23.0)	15 (19.7)	43 (21.7)	0.714
	25-34	42 (34.4)	30 (39.5)	72 (36.4)	
	35-44	30 (24.6)	17 (22.4)	47 (23.7)	
	45-54	13 (10.7)	11 (14.5)	24 (12.1)	
	55-65	9 (7.4)	3 (3.9)	12 (6.1)	
Fitzpatrick phototype	III	68 (70.8)	28 (29.2)	96 (100.0)	0.010*
	IV	54 (52.9)	48 (47.1)	102 (100.0)	
Total		122	76	198	

LAST, lactic acid stinging test; SD, standard deviation; *p<0.05. Values are n (%) unless noted; continuous variables are mean ± SD. Percentages for sex and Fitzpatrick phototype are row percentages within each category; percentages for age groups are column percentages within LAST status or the overall sample. p-values are two-sided (χ^2 for categorical variables; *t*-test for continuous variables; α=0.05). Fitzpatrick phototypes were III and IV.

Supplementary Table 2. Item-level diagnostic performance of trigger items.

Item	**Sensitivity % (95% CI)**	**Specificity % (95% CI)**	**Trigger frequency % (YES, overall)**
Sun exposure	60.7 (51.8-68.9)	75.0 (64.2-83.4)	47.0
Hot/dry weather/environment	68.9 (60.2-76.4)	61.8 (50.6-71.9)	57.1
Cold/wet weather/environment	45.9 (37.3-54.7)	80.3 (70.0-87.7)	35.9
Wind	15.6 (10.2-23.0)	93.4 (85.5-97.2)	12.1
Contact with water	8.2 (4.5-14.4)	94.7 (87.2-97.9)	7.1
Physical exercise	23.8 (17.1-32.1)	94.7 (87.2-97.9)	16.7
Soaps/cleansers	25.4 (18.5-33.8)	89.5 (80.6-94.6)	19.7
Cosmetics	35.2 (27.3-44.1)	92.1 (83.8-96.3)	24.7
Smog/pollutants	44.3 (35.8-53.1)	77.6 (67.1-85.5)	35.9
Psychological stress	18.9 (12.9-26.7)	88.2 (79.0-93.6)	16.2

LAST, lactic acid stinging test; CI, confidence interval. Sensitivity was defined as the proportion of LAST-positive participants reporting the corresponding trigger, and specificity as the proportion of LAST-negative participants denying the trigger. Confidence intervals were calculated using the Wilson method. Denominators were n=122 for LAST-positive and n=76 for LAST-negative participants. Trigger frequency represents the proportion of participants responding “yes” among the entire study population (N=198), irrespective of LAST status.