

Table SIII. Multivariate logistic regression analysis of possible factors for dermatologist's choice of treatment modality

Variable	Treatment of acne									
	Topical agent		Oral antibiotics		Oral isotretinoin		Physical treatment ^b		Light-based therapy ^c	
	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value	OR (95% CI)	p-value
Sex										
Male	1.00		1.00		1.00		1.00		1.00	
Female	1.02 (0.75–1.39)	0.90	1.22 (0.94–1.59)	0.14	0.70 (0.53–0.93)	0.013*	1.47 (1.12–1.92)	0.005*	1.14 (0.78–1.67)	0.51
Age (years)	NS		NS		NS		NS		NS	
Occupation	NS		NS		NS		NS		NS	
Duration	NS		NS		NS		NS		NS	
Expected duration of treatment	NS		NS		NS		NS		NS	
Location of	NS		NS		NS		NS		NS	
Dermatologist-assessed severity^a										
Grade 1	1.00		1.00		1.00		1.00		1.00	
Grade 2	0.47 (0.29–0.76)	0.002*	2.47 (1.71–3.58)	<0.0001*	1.53 (0.99–2.35)	0.055	2.28 (1.56–3.32)	<0.0001*	2.09 (1.11–3.97)	0.024*
Grade 3	0.44 (0.27–0.71)	0.001*	2.16 (1.46–3.18)	0.0001*	4.56 (2.97–7.024)	<0.0001*	4.17 (2.81–6.18)	<0.0001*	3.99 (2.09–7.61)	<0.0001*
Grade 4	0.60 (0.30–1.17)	0.14	1.63 (0.95–2.82)	0.079	10.20 (5.70–18.26)	<0.0001*	7.68 (4.39–13.45)	<0.0001*	2.49 (1.05–5.90)	0.039*
Grade 5	1.08 (0.41–2.86)	0.88	0.94 (0.45–1.94)	0.86	10.18 (5.00–20.74)	<0.0001*	5.65 (2.89–11.06)	<0.0001*	1.91 (0.62–5.88)	0.26
Grade 6	0.39 (0.09–1.74)	0.22	1.60 (0.37–6.86)	0.53	8.70 (2.11–35.90)	0.003*	2.07 (0.48–8.91)	0.33	5.91 (1.22–9.22)	0.029*
Patient-reported severity										
Very mild	1.00		1.00		1.00		1.00		1.00	
Mild	1.33 (0.76–2.32)	0.32	1.02 (0.64–1.64)	0.93	0.99 (0.58–1.68)	0.97	0.93 (0.58–1.48)	0.75	4.16 (1.59–10.90)	0.004*
Moderate	1.33 (0.76–2.33)	0.32	1.22 (0.76–1.96)	0.42	0.88 (0.52–1.50)	0.64	0.81 (0.50–1.30)	0.38	3.56 (1.35–9.42)	0.011*
Severe	1.04 (0.55–1.97)	0.90	1.15 (0.67–1.98)	0.62	0.86 (0.47–1.58)	0.63	0.61 (0.35–1.06)	0.081	4.57 (1.61–12.95)	0.004*
Patient's preference										
Topical agent	1.00		1.00		1.00		1.00		1.00	
Oral antibiotics	0.85 (0.47–1.53)	0.59	1.46 (0.92–2.33)	0.11	0.76 (0.29–1.95)	0.57	0.98 (0.61–1.58)	0.93	0.66 (0.28–1.53)	0.33
Oral isotretinoin	0.620 (0.39–0.99)	0.047*	0.693 (0.46–1.06)	0.088	0.864 (0.52–1.44)	0.576	1.214 (0.81–1.82)	0.348	0.890 (0.47–1.68)	0.720
Physical treatment ^b	0.53 (0.36–0.79)	0.002*	1.10 (0.79–1.53)	0.57	2.19 (1.43–3.33)	0.0003*	2.43 (1.73–3.41)	<0.0001*	2.24 (1.43–3.52)	0.0004*
Light-based therapy ^c	0.49 (0.33–0.73)	0.0004*	0.98 (0.69–1.38)	0.90	0.95 (0.66–1.36)	0.78	0.86 (0.60–1.22)	0.401	2.02 (1.27–3.21)	0.003*

^aKorean acne grading system.

^bPhysical treatment includes chemical peeling, comedo extraction, incision and drainage and steroid intralesional injection.

^cLight-based therapy includes photodynamic therapy, dye laser, infrared laser, light-emitting diode (LED) therapy, electro-optical synergy (ELOS) and intense pulsed light (IPL).

* $p < 0.05$.

OR: odds ratio; CI: confidence interval; NS: not significant.