

Table SI. Post hoc tests (hyperkeratosis) and (erythema)

Hyperkeratosis – Concentration comparison among groups

Concentration (I)	Concentration (J)	Mean deviation	Standard error	Significance	Confidence interval
0.1%	0.3%	0.100	0.2253	0.658	-0.545 0.345
	Vehicle (0.3%)	0.963	0.2253	0.000	-1.408 -0.517
0.3%	Vehicle (0.1%)	0.538	0.2253	0.018	-0.983 -0.092
	Vehicle (0.3%)	0.863	0.2253	0.000	-1.308 -0.417
Vehicle (0.3%)	Vehicle (0.1%)	0.438	0.2253	0.054	-0.883 0.008
	Vehicle (0.1%)	0.425	0.2253	0.061	-0.020 0.870

Concentration comparison among groups: The improvement of hyperkeratosis in different gentamicin groups was higher than those in the vehicle group, and the differences were statistically significant ($p < 0.05$). There was no statistical difference between the two groups of different concentration ($p > 0.05$).

Hyperkeratosis – Duration comparison among groups

Day (I)	Day (J)	Mean deviation	Standard error	Significance	Confidence interval
1	10	0.375	0.2253	0.098	-0.070 0.820
	20	0.813	0.2253	0.000	0.367 1.258
	30	1.263	0.2253	0.000	0.817 1.708
10	20	0.438	0.2253	0.054	-0.008 0.883
	30	0.888	0.2253	0.000	0.442 1.333
20	30	0.450	0.2253	0.048	0.005 0.895

Concentration comparison among groups: The improvement of hyperkeratosis was statistically significant in several paired groups (1–20, 1–30, 10–30, 20–30).

Erythema – Concentration comparison among groups

Concentration (I)	Concentration (J)	Mean deviation	Standard error	Significance	Confidence interval
0.1%	0.3%	0.163	0.2067	0.433	-0.571 0.246
	Vehicle (0.3%)	0.213	0.2067	0.306	-0.621 0.196
	Vehicle (0.1%)	0.000	0.2067	1.000	-0.409 0.409
0.3%	Vehicle (0.3%)	0.050	0.2067	0.809	-0.459 0.359
	Vehicle (0.1%)	0.163	0.2067	0.433	-0.246 0.571
Vehicle (0.3%)	Vehicle (0.1%)	0.213	0.2067	0.213	-0.196 0.621

Concentration comparison among groups: There was no significant difference between the two groups of different concentrations ($p > 0.05$). Compared with the vehicle group, the statistical difference was not significant as well ($p > 0.05$).

Erythema – Duration comparison among groups

Day (I)	Day (J)	Mean deviation	Standard error	Significance	Confidence interval
1	10	0.000	0.2067	1.000	-0.409 0.409
	20	0.000	0.2067	1.000	-0.409 0.409
	30	0.275	0.2067	0.185	-0.134 0.684
10	20	0.000	0.2067	1.000	-0.409 0.409
	30	0.275	0.2067	0.185	-0.134 0.684
20	30	0.275	0.2067	0.185	-0.134 0.684

Duration comparison among groups: There was no significant difference among different treatment durations.