SUPPLEMENTARY MATERIAL FOR "Ingenol Mebutate 0.06% Gel for Field Treatment of Actinic Keratosis on 250 cm² of Skin on Trunk and Extremities: A Randomized Dose-Finding Trial

Exclusion criteria

Patients were excluded if they had prior treatment with IngMeb within the selected treatment area; treatment areas within 5 cm of an incompletely healed wound, a suspected basal cell carcinoma, or a suspected squamous cell carcinoma; presence of atypical lesions (hypertrophic, hyperkeratotic or cutaneous horns) within the treatment area and/or AK lesions that did respond to cryotherapy on two previous occasions; history or evidence of skin condition, or use of therapeutic or cosmetic products, that could interfere with the evaluation of the intervention.

Analysis of primary and secondary endpoints

To analyze primary and secondary endpoints, a multiple imputation technique using negative binomial regression model with treatment group, AK counts at the previous visit, and analysis sites as covariates was employed to account for the few missing counts (2%) at Week 8. Log baseline AK count was used as offset. AKCLEAR 100 and AKCLEAR 75 at Week 8 were analyzed by a Cochran-Mantel-Haenszel test, adjusting for analysis site. A log transformation was applied to the estimated relative risks in order to apply Rubin's pooling method. Reduction in AK count from baseline to Week 8 was analyzed using a negative binomial regression including log baseline AK count as offset and treatment group and analysis site as factors. Observed values were also tabulated.

Reference:

 Rubin DB. Multiple imputation for nonresponse in surveys: John Wiley & Sons, 2004.

After central review by pathologist Keratoacanthoma SCC Unknown – no central review AE reported by investigator 0 Keratoacanthoma 3 0 SCC 11 0 0 0 0 SCC in situ Intra-epidermal carcinoma 0 0 1 **Total** 14 1 1

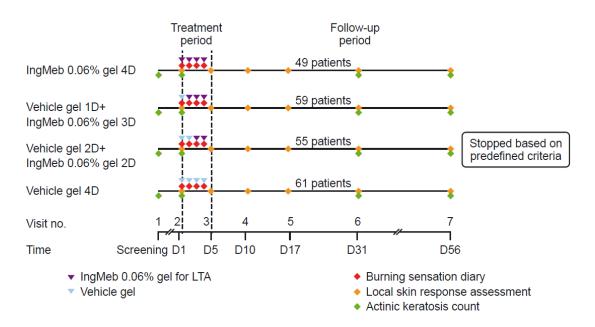
AE, adverse event; SCC, squamous cell carcinoma.

Supplementary Table 2. TSQM-derived scores at end of treatment

	IngMeb 0.06% gel			
	2D	3D	4D	Vehicle
	(n=55)	(n=59)	(n=49)	(n=61)
Effectiveness score, mean (SD) - Number	68.4 (21.8)	67.8 (24.4)	72.3 (21.1)	37.4 (27.7)
	55	58	48	56
Difference vs vehicle^a(95% CI)P-value	31.0 (21.7–40.3) p<0.001	30.4 (21.2–39.6) p<0.001	N/A	-
Side effects, mean (SD) – Number	87.3 (18.8)	88.3 (23.2)	84.9 (22.8)	99.9 (0.8)
	55	58	48	58
Difference vs vehicle^a(95% CI)P-value	-12.5 (-18.96.1) p<0.001	-11.5 (-17.8– -5.2) p<0.001	N/A	-
Global satisfaction, mean (SD) – Number	64.9 (23.7)	68.5 (25.2)	63.5 (24.8)	36.0 (27.7)
	55	58	48	57
 Difference vs vehicle (95% CI) P-value 	29.1 (19.5–38.6) p<0.001	32.7 (23.2–42.1) p<0.001	N/A	-
Convenience, mean (SD) - Number	79.9 (14.8)	79.1 (17.0)	77.7 (14.1)	78.7 (15.3)
	55	58	48	58
Difference vs vehicle^a(95% CI)P-value	1.3 (-4.5–7.1) p=0.66	0.6 (-5.1–6.3) p=0.84	N/A	-

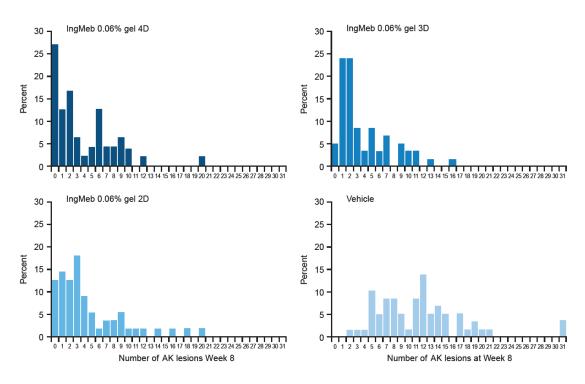
AK, actinic keratosis; CI, confidence intervals; IngMeb, ingenol mebutate; N/A, not available; SD, standard deviation; TSQM, Treatment Satisfaction Questionnaire for Medication.

^aLeast Squares Means difference: From ANOVA with factors: treatment group and analysis site.



IngMeb, ingenol mebutate; LTA, large treatment area

Supplementary Figure 1. Trial design



2D, 2-day group; 3D, 3-day group; 4D, 4-day group; AK, actinic keratosis; IngMeb, ingenol mebutate.

Supplementary Figure 2. AK count at Week 8

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