

Table SI. Reflectance confocal microscopy score used for the evaluation of clinical and subclinical actinic keratosis. All criteria were evaluated in 4 different areas and final score for each criterion was calculated with the addition of the scores in the 4 different areas. Scores were calculated at t1, t2, t3, and t4. Histopathology score used for the evaluation of skin biopsies at t1 and t4

<i>Reflectance confocal microscopy score</i>	
Scaling	0 = absent; 1 = <10%; 2 = 10–25%; 3 = >25%
Upper nucleated cells: polygonal nucleated cells at stratum corneum	0 = absent; 1 = isolated; 2 = some; 3 = many
Detached corneocytes	0 = coherence of corneocytes; 1 = isolated detached corneocytes at the stratum corneum; 2 = some detached corneocytes; 3 = many detached corneocytes
Area of atypical honeycomb	0 = absent; 1 = <25%; 2 = 25–50%; 3 = >50%
Degree of atypia in atypical honeycomb pattern	0 = absent; 1 = slightly atypical; 2 = moderate atypia; 3 = severe atypia
Round nucleated cells at spinous granulous layer	0 = absent; 1 = isolated; 2 = some; 3 = many
Inflammatory cells	0 = absent; 1 = isolated; 2 = some; 3 = many
<i>Histopathology score</i>	
Epidermal thickness	Score from 0 to 2 being 0 normal and 2 the maximum score.
Thickness of stratum corneum	Score from 0 to 2 being 0 normal and 2 the maximum score.
Epidermal atypia	Score from 0 to 2 being 0 normal and 2 the maximum score.
Thickness of atypia	Score from 0 to 2 being 0 absence, 1 atypia in the basal layers and 2 in suprabasal layers.
Inflammation	Score from 0 to 2 being 0 normal and 2 the maximum score.
Type of inflammation	Score from 0 to 2 being 0 normal, 1 lympho-plasmocytic infiltrate and 2 lympho-eosinophilic.
Ki67	Intensity of Ki67 staining was considered normal (score 0) when 1 basal epidermal cell was positive every 10 or more basal cells, score 1 when more than 1 basal cells were positive in less than 10 basal cells, score 2 when consecutive basal cells were positive and score 3 when consecutive basal and supra-basal cells were positive.
Nuclear staining were evaluated in the 1/3 basal layer and in the 2/3 supra-basal layer as a semi-quantitative quantification in each case	
PCNA	Score: 0 (absence), 1 (more the 10% of nucleus and less than 50% of the nucleus), 2 (more than 50% of nucleus and less than 90% of the nucleus), to 3 (more than 90% of nucleus).
p53	Score from 0 to 3 being 0 absence and 3 the maximum score in both cases.
p21	Score from 0 to 3 being 0 absence and 3 the maximum score in both cases.
CD31	Number of positive cells in high magnification field.
COX2	Score from 0 to 3 being 0 absence and 3 the maximum score.