**Supplemental Information – Figure legends**

Fig. S1: S-vitamin D levels in adults with atopic dermatitis before and after treatment with nb-UVB for 6-8 weeks. The increase in 25-OH-Vitamin D (reference range, 37-131 nmol/L) after treatment compared to baseline is significant (p < 0.001)

Fig. S2: Community state type (CST) dynamics visualized as Markov chains showing transition probabilities between CSTs over time. The direction of the arrows indicates the direction of the shifts between CSTs and the thickness of the arrows corresponds to the fraction of samples going through that particular shift. CST 1 is the most stable group.

Fig. S3: No significant change in alpha diversity (InvSimpson) after local treatment with nb-UVB x 3 in lesional skin (LS) (p=0.43).