**Supplementary**

**Table S1.** Prediction of filaggrin gene loss-of-function mutation (homozygous, compound heterozygous, or heterozygous) for both thenar eminence and palmar images using hyperlinearity scores and age with logistic regression and linear support vector machine classification

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Classifier | Thenar images | | | Palmar images | | |
| Accuracy | Sensitivity | Specificity | Accuracy | Sensitivity | Specificity |
| Logistic regression | 67.9% (±8.5) | 60.8% (±10.5) | 73.2% (±13.6) | 64.2% (±6.6) | 48.1% (±8.3) | 74.4% (±12.3) |
| Support vector machine (linear) | 73.0% (±5.4) | 50.9% (±7.9) | 87.7% (±6.8) | 69.4% (±5.2) | 48.5% (±8.5) | 83.7% (±8.4) |

Presented as percentage (standard deviation)