

Labskin^{1.1} Stratum Corneum Thickness

Objective:

To determine the rate of formation of the stratum corneum (SC) in Labskin^{1.1} up to 30 days air-liquid-interface (ALI).

Method:

Labskin was fixed in duplicate on days 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 and 30 ALI. The sections were H&E stained and stratum corneum thickness was measured in the middle and each end of the section using Image J software.

Results:

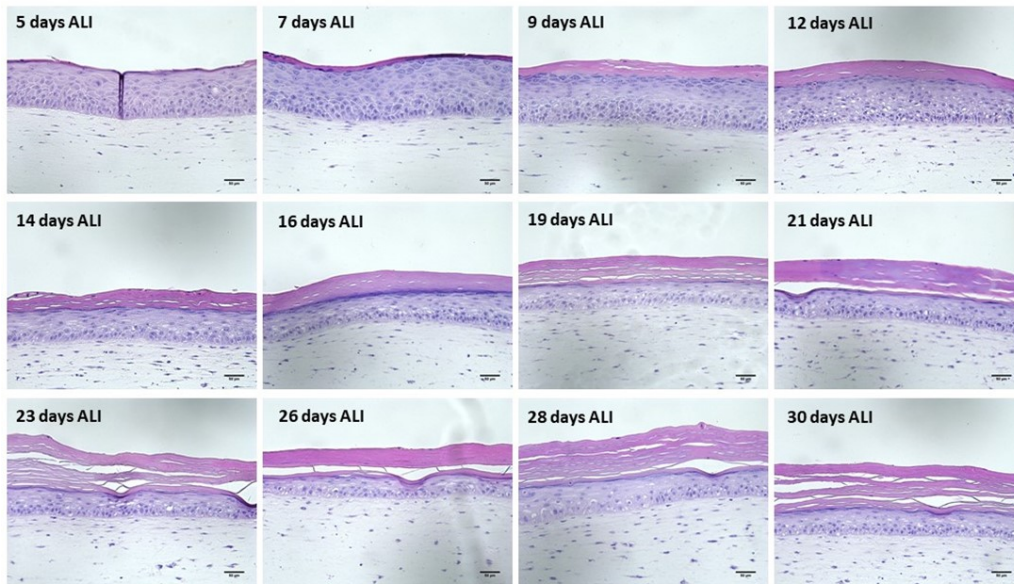


Figure 1 (left)

H&E images of the Labskin sections show that the stratum corneum gets thicker with time.

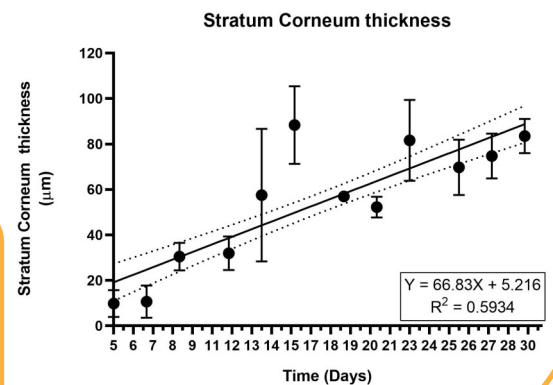
The Labskin epidermis reduces over time as the Stratum Corneum gets thicker.

Figure 2 (right)

The stratum corneum gets thicker as the Labskin ages. Variability in measurement is due to separation of the SC.

Summary:

The Labskin has a thick epidermis from day 5 to day 12 ALI. As the days proceed the epidermis becomes thinner and the SC gets thicker.



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