



## Dermatoscopy of Scalp Donor Harvested Thick Split-Thickness Skin

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### Clinical Image

A 46-year-old man suffering from a hot-press contact burn presented to our department with a 2-day history of eschar formation on the right 4<sup>th</sup> and 5<sup>th</sup> finger. He underwent escharectomy and received occipital split-thickness skin grafts (0.02 inch depth set with a Zimmer<sup>®</sup> Air Dermatome) on the right 4<sup>th</sup> and 5<sup>th</sup> finger (24 cm<sup>2</sup> in size) six days after the injury. The scalp wound was assessed by taking dermatoscopy (DE350 digital dermatoscope, Firefly Global, Belmont, MA, USA) at postoperative days 1, 2, 3, 4, 6, 7 and 8. The dermatoscopy from postoperative day 1 showed epidermal regeneration from each cut hair unit (Figure 1). The dermatoscopy from postoperative day 3 showed spreading epithelial regeneration over the interfollicular space between the growing hair units (Figure 2). The dermatoscopy from postoperative day 6 showed complete epidermal regeneration

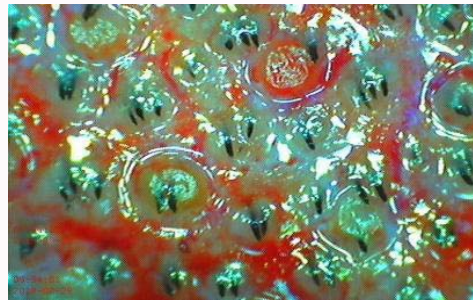


Figure 1: Epidermal regeneration from each cut hair unit.

### OPEN ACCESS

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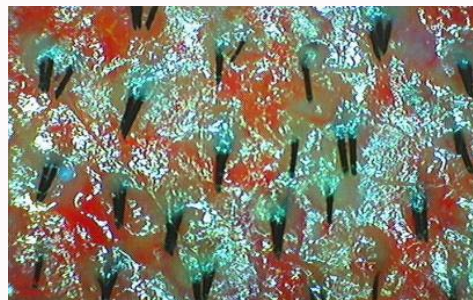


Figure 2: Spreading epithelial regeneration over the interfollicular space between the growing hair units.

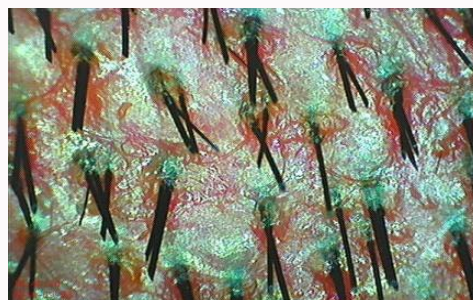
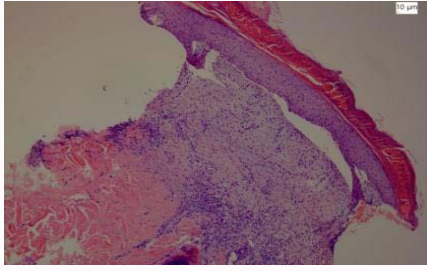


Figure 3: Epidermal regeneration at the interfollicular space between the growing hair units.



**Figure 4:** Epidermal and dermal regeneration over the scalp wound.

at the interfollicular space between the growing hair units (Figure 3). Histological findings from a punch biopsy on postoperative day 12 showed epidermal and dermal regeneration over the scalp wound (HE x40, Figure 4). The skin of the occipital donor was measured as 0.068 inch in thickness by ultrasonography. The grafted skin was measured as 0.035 inch in thickness by histological studies. The grafted skin was well received, and the fingers were restored adequate motion. The scalp donor showed scar less healing 5 months after surgery.