What is RES™?
Regenerative Epithelial Suspension - RES™ - is an autologous suspension composed of the cells¹ and wound-healing factors necessary to regenerate natural healthy skin.

Avita’s unique regenerative technology enables clinicians to rapidly create and apply RES™ at the point of care in a simple 30-minute procedure.

The regenerative mechanism is within the suspension...

Activated

- Disaggregation of skin cells removes contact inhibition, known as the “free edge” effect,²¹ which initiates a cascade of wound healing cell signals.

- Growth factors and cytokines are rapidly secreted by “free edge” keratinocytes and fibroblasts to orchestrate proliferation, migration, angiogenesis and matrix re-modelling processes which are essential for skin regeneration.²²-³²

Available

- Normal skin regeneration requires multiple skin cell phenotypes and processes.

- The use of RES™ introduces disaggregated epithelial cells and the associated signalling across the surface of the wound, overcoming the usual limitations of the wound edge (Figure 1).

Autologous

- RES™ is safe as it is generated from the patient’s own skin. In addition, there is no risk of graft failure due to rejection.³⁴

Complete

- The multi-phenotype skin cells¹ contained in RES™ are essential in the normal cellular processes for effective wound healing and complete restoration of normal functionality (e.g. durability, pigmentation, minimal contracture).³⁵

- Melanocytes contained in RES™ survive to localize to the epidermal side of the dermal-epidermal junction and evenly distribute melanin throughout the epidermis for normal pigmentation of the new skin.³⁶
Preparation of RES™

Clinical References


