Case Study no. 18 – Supporting Wound Cleansing in Chronic Post-Traumatic Scar Tissue With Vascular Compromise

Patient
40-year-old female with a history of severe lower leg trauma 20 years ago, treated with multiple surgical interventions including flap surgery.

Clinical
New onset necrosis developing within long-standing scar tissue, associated with an underlying vascular defect, most likely of venous origin.

Challenges
Compromised vascular supply and fragile scar tissue increased the risk of delayed healing and infection, requiring careful but effective wound hygiene.

Brush Solution
Controlled and gentle mechanical cleansing allowed targeted hygiene within vulnerable scar tissue without disrupting compromised tissue structures.

Clinical Outcomes & Rationale
Gentle, localized mechanical cleansing supported removal of necrotic debris while preserving fragile, poorly perfused scar tissue. Maintaining effective wound hygiene in a compromised vascular environment helped stabilize the wound bed, reduce infection risk, and support safe, ongoing wound management in a complex chronic post-traumatic setting.

"Gentle cleansing helped maintain control in fragile scar tissue with vascular compromise."

