VERSAJET usage algorithms

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Introduction

Algorithms for the usage of VERSAJET Hydrosurgery System in complex wound management cases are presented:

VERS AJET usage algorithm: general power level settings

- 1-3: Tenuous tissue, Gentle resurfacing
- 3-4: Weak tissue, Debride superficial eschar
- 4-5: Common settings, Medium quality tissue, "Get a feel for the wound"
- 5-6: Common settings, Medium quality tissue, Deeper necrosis
- 6-7: Youthful tissue, Firm induration, Palmer or plantar skin
- 7-8: Robust or rigid tissue, Chronic fibrosis, Deep tissue necrosis
- 8-10: Pump priming, Major tissue necrosis

VERS AJET usage algorithm: power level ranges by skin type/integrity

- Minor surface debridement post biologic dressings: INTEGRA™, ALLOGRAFT™, XENOGRAFT™
  - Power level: 2-3

- Post-enzymatic debridement: COLLAGENASE
  - Power level: 3-4

- Attenuated skin: Long-term steroids, Aged skin
  - Power level: 4-5

- Robust tissue quality: Young burn, Chronic indurated wound, Pressure ulcer
  - Power level: 5-6

- Thick tissue: Scalp, Glabrous skin, Calciphylaxis
  - Power level: 6-7

- Deep tissue injury: Pressure ulcer, Coumadin necrosis, Necrotising fasciitis
  - Power level: 7-9

- Very deep tissue injury: Coumadin necrosis, Necrotising fasciitis
  - Power level: 8-10
VERSJET® usage algorithm: power level ranges by wound classification

**Immunologic (2-8)**
- Pyoderma-gangrenosum
- Pemphigus (Bulous disorders)
- Stevens-Johnson Syndrome/TEN
- Systemic lupus
- Vasculitis
- Coumadin necrosis
- Wegner’s granulomatosis

**Traumatic (3-7)**
- Human/animal bites
- Insect/brown recluse
- Abrasions/road rash
- Burns, thermal
- Burns, chemical
- Crush injury
- Post-surgical

**Infectious (4-8)**
- Necrotizing fascitis
- Synergistic gangrene
- Fournier’s gangrene
- Post-surgical
- Abscesses

**Physiologic (4-8)**
- Arterial ulcers
- Venous stasis ulcers
- Neuropathic ulcers
- Pressure ulcers
- Necrobiosis/leptoidic-diabeticorum
- Radiation injury
- Calciphylaxis
- Gout
- Cryoglobulinemia
- Tumor necrosis

VERSJET® usage algorithm: power level ranges by anatomic location

**Safe zones (5-8)**
- Scalp
- Chest/back (not nipple or areola)
- Flanks
- Abdomen
- Buttocks
- Thighs
- Calves
- Palms
- Soles

**Careful zones (3-6)**
- Face
- Neck
- Popliteal fossa
- Dorsal foot
- Antecubital fossa
- Medial malleolus
- Perineum
- Anterior tibia
- Dorsal hand
- Medial/Lateral digits
- Elbow

**Alert zones (1-4)**
- Deep wound femoral triangle
- Radial artery at wrist
- Eyes
- Deep wounds of neck
- Post auricular region

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