

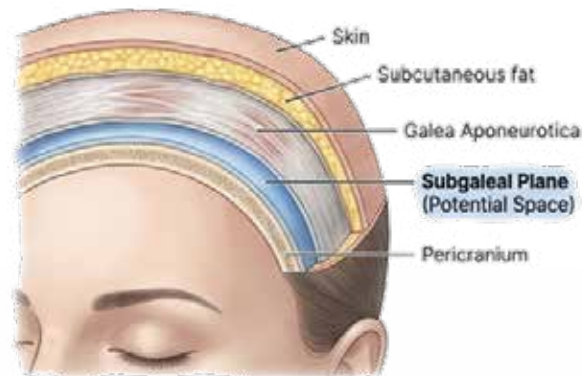


PG Residency Plastic Surgery

Smart Notes. Better Scores.



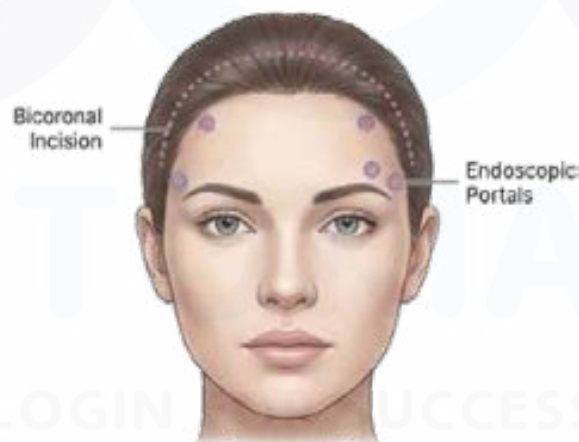
Upper Face Rejuvenation: Principles & Anatomy



Patient Selection

The Philosophy:

- Patient Perspective: Success = Managing expectations & addressing specific complaints.
- Contraindications (Red Flags):
 - Body Dysmorphic Disorder (BOD)
 - Substance abuse
 - Unrealistic expectations (e.g., solving relationship issues)



Technique

Brow Lift Approaches:

- **Indications:** Lateral eyebrow ptosis (tired/angry look), forehead wrinkles, upper eyelid crowding.
- **Open Lift:** Bicornal or hairline incision. Elevates in the subgaleal plane. Excess skin trimmed.
- **Endoscopic Lift:** Minimally invasive (5 portals). Subgaleal dissection. Resection of corrugator/procerus muscles. Fixation via screws.



Warning: Contraindications are crucial.



Surgery

High-Yield Videos

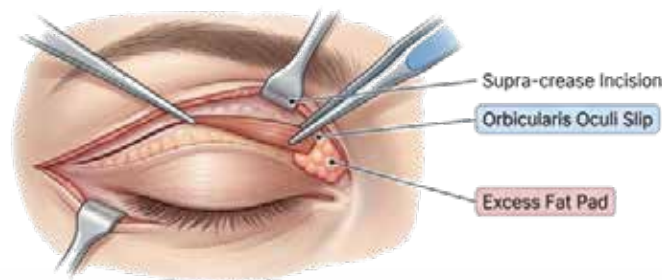
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Periorbital Surgery: Blepharoplasty



Upper Blepharoplasty

- **Target:** Ptosis, excess skin, and fat prolapse.
- **Technique:** Supra-crease incision. Excision of orbicularis oculi slip and resection of excess fat.



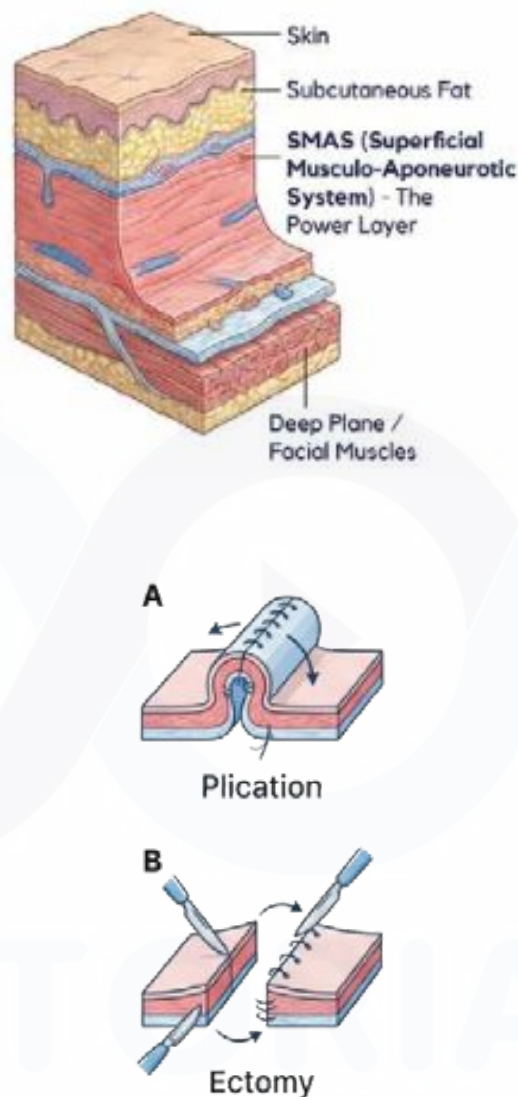
Lower Blepharoplasty

- **Challenge:** Assessment of skin laxity and globe adherence.
- **Laxity Correction Methods:**
 - **Canthopexy** : Plication of lateral canthal tendon (Mild laxity)
 - **Canthoplasty** : Incision and fixation of eyelid to **Whitnall's Tubercle** (Severe laxity)

Key Complications

- Dry eye, scleral show, **Ectropion** (outward turning of eyelid; exposure risk).

Facial Rejuvenation: The SMAS Concept



Rhytidectomy Principles

- Move beyond skin excision. Manipulate the **SMAS layer** (carries facial muscles) for lasting results.

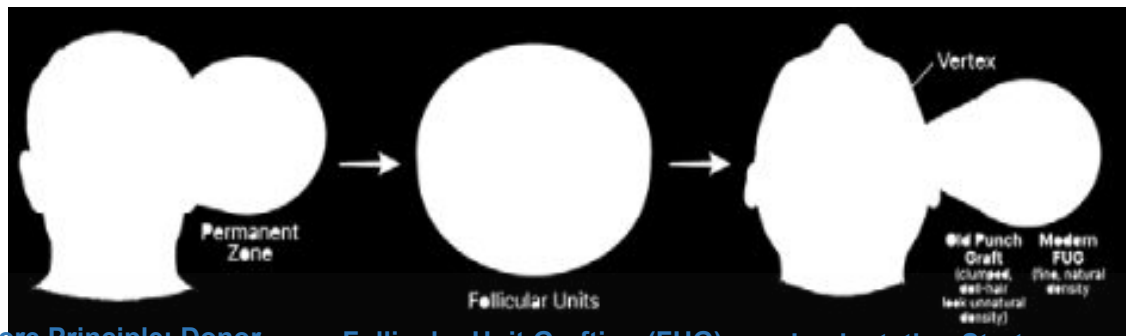
Surgical Techniques

- **SMAS Plication:** Folding and suturing the sagging SMAS.
- **SMAS Ectomy:** Excising excess muscle layer before suturing.
- **Deep Plane:** Lifts entire muscle complex with deep structures (Longest lasting).

Ancillary & Risks

- **Platysmaplasty:** Tightens neck muscles to correct vertical banding.
- **Complications:** Hematoma (most common), hypertrophic scarring, nerve injury (greater auricular).

Hair Transplantation: Biology & Technique



Core Principle: Donor Dominance

- Graft survival depends on donor site characteristics (occipital hair is permanent), not the recipient site.

Follicular Unit Grafting (FUG)

- The Gold Standard: Transplants natural groupings of 1, 2, or 3 hairs.
- Advantage: Natural density; avoids 'cobblestone' appearance.

Implantation Strategy

- Forehead:** Forward vector.
- Vertex:** Spiral pattern.
- Indications:** Androgenic alopecia, scarring alopecia (burns), eyebrow reconstruction.

Rhinoplasty & Skin Refinement



Rhinoplasty Approaches

- Open:** Columellar incision (inverted V). Full visualization for osteotomy / grafts.
- Closed:** No external scar. Limited manipulation.
- Key Maneuvers:** Osteotomy (narrowing bones), Spreader Grafts (valve collapse), Strut Graft (tip support).

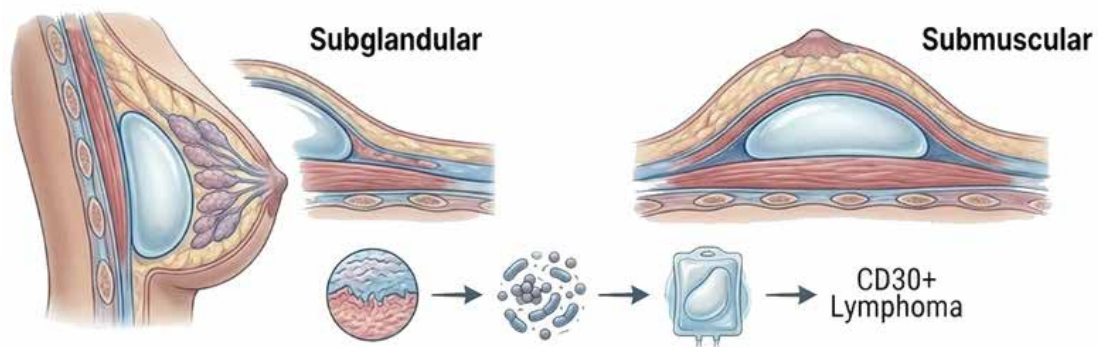
Skin Resurfacing

	Ablative (CO2)	Fractional Photothermolysis
Mechanism	Thermal coagulation of dermis	Coagulative injury columns
Recovery	7-10 Days	24-48 Hours
Risk	Hyperpigmentation	Faster healing

Skin Resurfacing

- Ablative Lasers:** Stimulates basal cells via thermal injury.
- Fractional:** Sparing surrounding tissue for rapid recovery.

Breast Aesthetic Surgery



Augmentation & Safety

- **Planes:** Submuscular placement reduces capsular contracture risk.
- **BIA-ALCL:** Lymphoma linked to textured implants & biofilm. Presents as peri-implant seroma

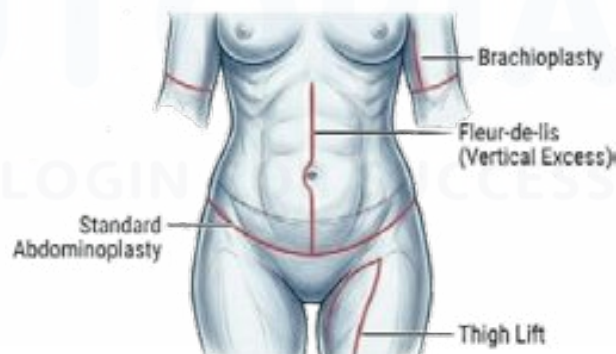
Reduction & Lift

- **Reduction:** Removes hypertrophy. Preserves NAC on a pedicle.
- **Mastopexy:** Corrects ptosis from attenuated Cooper's ligaments.

Gynecomastia

- **Florid:** Ductal hyperplasia (Liposuction).
- **Fibrous:** Stroma fibrosis (Excision).

Abdominal & Body Contouring



Abdominoplasty

- Contour procedure, not weight loss.
- **Traditional:** Transverse incision + diastasis plication + umbilical transposition.
- **Fleur-de-lis:** Adds vertical incision for horizontal excess (Massive Weight Loss).

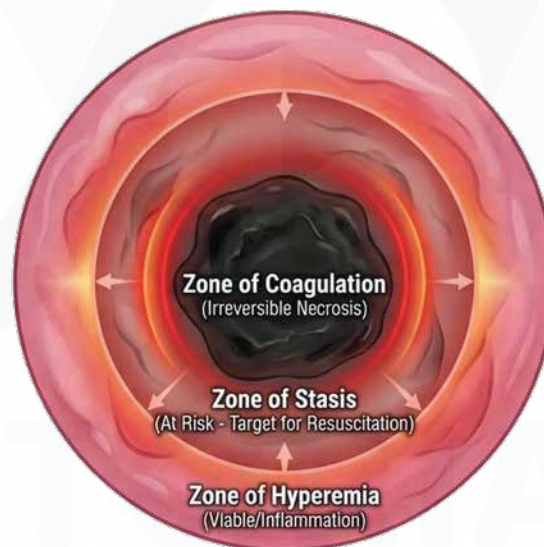
Post-Bariatric Considerations

- **Criteria:** Stable weight (4mo), BMI <30, wait 1.5 years post-surgery.
- **Belt Lipectomy:** Circumferential lower body tissue removal.
- **Brachioplasty:** Excision of medial arm skin ('batwing').
- **Risks:** High skin necrosis (smokers), seroma, DVT/PE.

Post-Bariatric Considerations

- **Criteria:** Stable weight (4 mo), BMI <30, wait 1.5 years post-surgery.
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Burns: Pathology & Zones of Injury



Pathophysiology

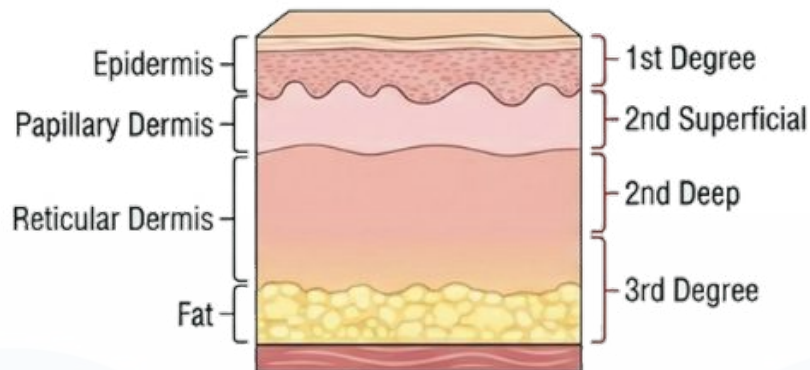
- **Flame/Scald:** Causes Coagulative Necrosis (protein denaturation).
- **Electrical/Chemical:** Causes Liquefactive Necrosis + coagulation.

Jackson's Zones

1. **Zone of Coagulation:** Central necrosis. Irreversible.
2. **Zone of Stasis:** Impaired perfusion. **The Critical Target.** Must resuscitate to prevent conversion to necrosis.
3. **Zone of Hyperemia:** Inflamed but viable tissue.

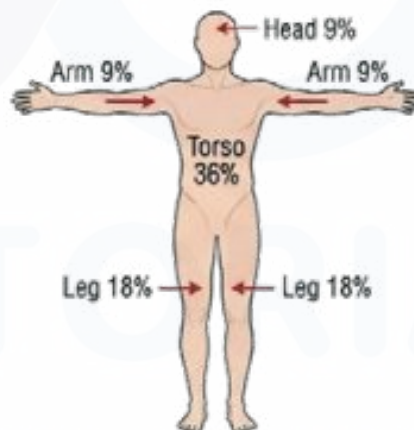
Burn Classification: Depth & Size

Depth Assessment



- **Superficial 2nd:** Papillary dermis. **Blisters** pink/moist, **blanches**. Heals <14 days.
- **Deep 2nd:** Reticular dermis. **Pale/mottled, no blanching**. Heals 2-5 weeks (scars).
- **3rd Degree:** Fullthickness. Leathery eschar, insensate. Requires surgery.

TBSA Calculation



- **Rule of Nines:** Adult standard (Head 9, Arm 9, Leg 18, Trunk 36).
- **Palm Method:** Patient's palm + fingers = 1 % TBSA.
- **Lund-Browder:** Adjusts for age (Most objective).



Surgery

Clinical Case

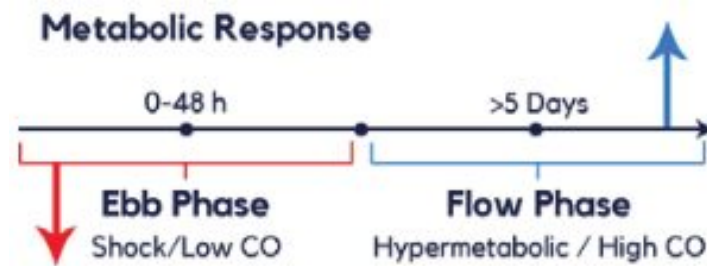
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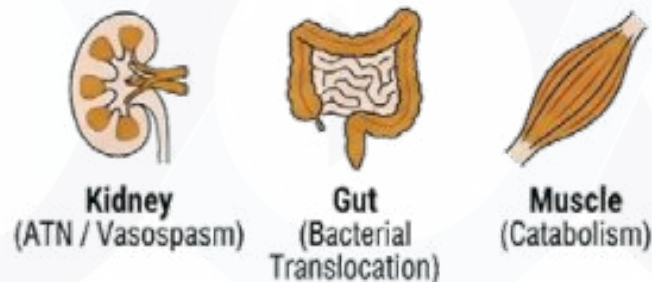
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Metabolic & Systemic Effects



The Response Timeline

- **Ebb Phase (0-48h):** Shock state. ↓ Cardiac Output, ↓ BMR.
- **Flow Phase:** Massive catecholamine surge. Hyperdynamic (CO 1.5x). Severe catabolism.
- **Prognosis:** Loss of >40% muscle mass = high mortality.



Systemic Impact

- **Renal:** Vasospasm risk Acute Tubular Necrosis.
- **GI:** Mucosal death Permeability Bacterial Translocation (Sepsis source).
- **Immune:** Global depression.

Acute Management & Resuscitation

Immediate Protocol

- **Stop the Burn:** Cool water (no ice). Cover with clean dry dressing.
- **Pain:** IV Morphine (Avoid IM in shock).
- **Indication:** Fluids for Adults > 15%TBSA; Children > 10%.

Fluid Resuscitation

- **Choice:** Ringer's Lactate (RL).
- **Monitoring:** Urine Output is gold standard.
- **Adults:** 0.5-1 ml/kg/hr
- **Children:** 1ml/kg/hr

THE PARKLAND FORMULA

$4 \text{ mL} \times \text{Body Weight (kg)} \times \% \text{ TBSA}$



Complications: Pressure & Airway

Compartment Syndromes

- **Abdominal (ACS):** Pressure >30mmHg compresses veins/lowers CO. Rx: Decompression.
- **Limb Ischemia:** Circumferential deep burns constrict flow(>40mmHg).

Escharotomy



- **Goal:** Release pressure. Incise eschar only until sub-cut tissue pops up.



- **Sites:** Mid-lateral limbs (avoid nerves), subcostal chest (for breathing).

Inhalation & Poisoning



Inhalation Injury Signs

Singed nasal hair,
carbonaceous sputum,
hoarseness.

- **Inhalation:** Edema/Pneumonia risk. Rx: Intubation (low tidal volume).
- **CO Poisoning:** Cherry red blood. Rx: 100% O₂.

Assessment & Wound Care

Wound Assessment Strategy

Classification Strategy

- **Group A:** Blanches, painful. Heals spontaneously. Rx: Moisture/Antibiotics.
- **Group B:** Fixed mottled, no blanching, leathery. Rx: **Surgical Excision.**
- **Nikolsky's Sign:** Epidermal separation indicates injury.

Topical Management

- **Group A:** Blanches, painful. Heals spontaneously. Rx: Moisture/Antibiotics.
- **Group B:** Fixed mottled, no blanching, leathery. Rx: **Surgical Excision.**
- **Nikolsky's Sign:** Epidermal separation indicates injury

Group A (Superficial)	Group B (Deep)
	
Heals <14 days → Conservative Care	Will Not Heal → Surgery

Topical Agents

Agent	Characteristics
Silver Sulfadiazine	Standard. Does not penetrate eschar. Leukopenia.
Mafenide Acetate	Penetrates eschar. Painful. Metabolic Acidosis.
Dakin's	Biofilms / Pseudomonas.

- **Silver Sulfadiazine:** Common, but limited penetration.
- **Mafenide:** Used for deep burns/eschar penetration (Watch for Acidosis).

Surgical Excision & Grafting

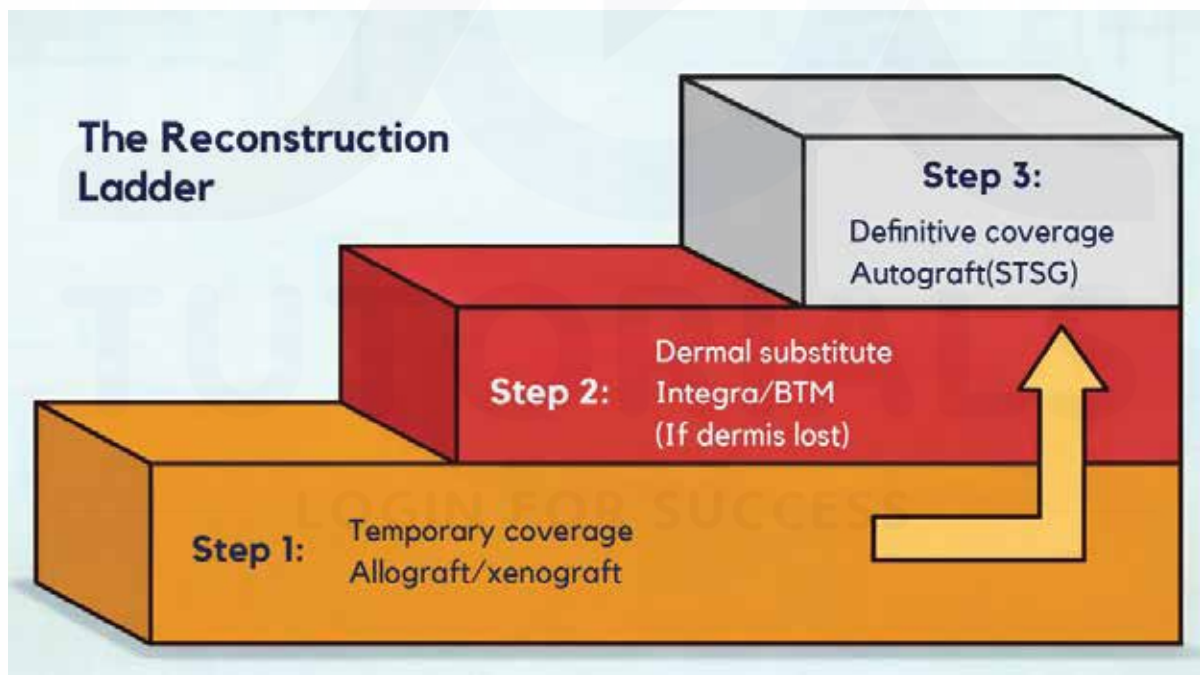
Excision Principles

- **Tangential Excision:** Sequential shaving until punctate bleeding (viable dermis).
- **Timing:** Excision of full-thickness wounds within 48h decreases mortality.
- **Fasciotomy:** Deep excision for electrical burns/fungal infection.



Coverage Options

- **Split Thickness Skin Graft (STSG):** Gold standard. Often meshed.
- **Allografts:** Temporary cadaver skin. Used in "Sandwich Technique".
- **Dermal Matrices (Integra/BTM):** Scaffolds for neodermis when donor skin is scarce.

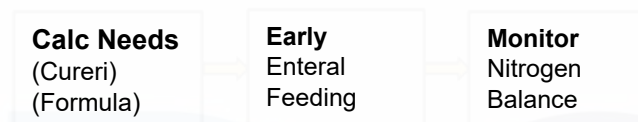


Nutrition & Pharmacology

Nutritional Support

- Goal: Counter hypermetabolism and prevent gut atrophy.
- Curreri Formula: $25 \text{ kcal/kg} + 40 \text{ kcal/\% TBSA}$.
- Protein: High needs (1-2 g/kg/day).

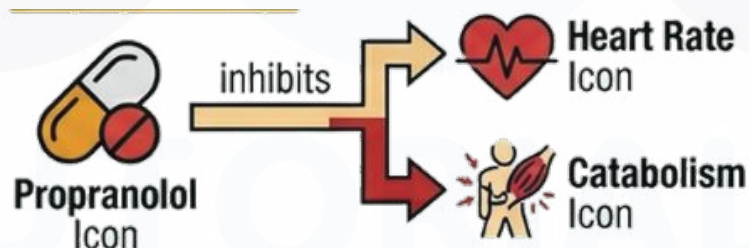
Nutritional Support



Pharmacology

- **Propranolol:** Beta-blocker. ↓ Heart rate, ↓ Catabolic activity, ↓ Fatty liver.
- **Oxandrolone:** Anabolic steroid to preserve muscle mass.
- **Protocol:** Change catheters every 5 days. Perioperative antibiotics for >30% TBSA

Beta-Blockade



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