



PALINGEN[®] CREAM

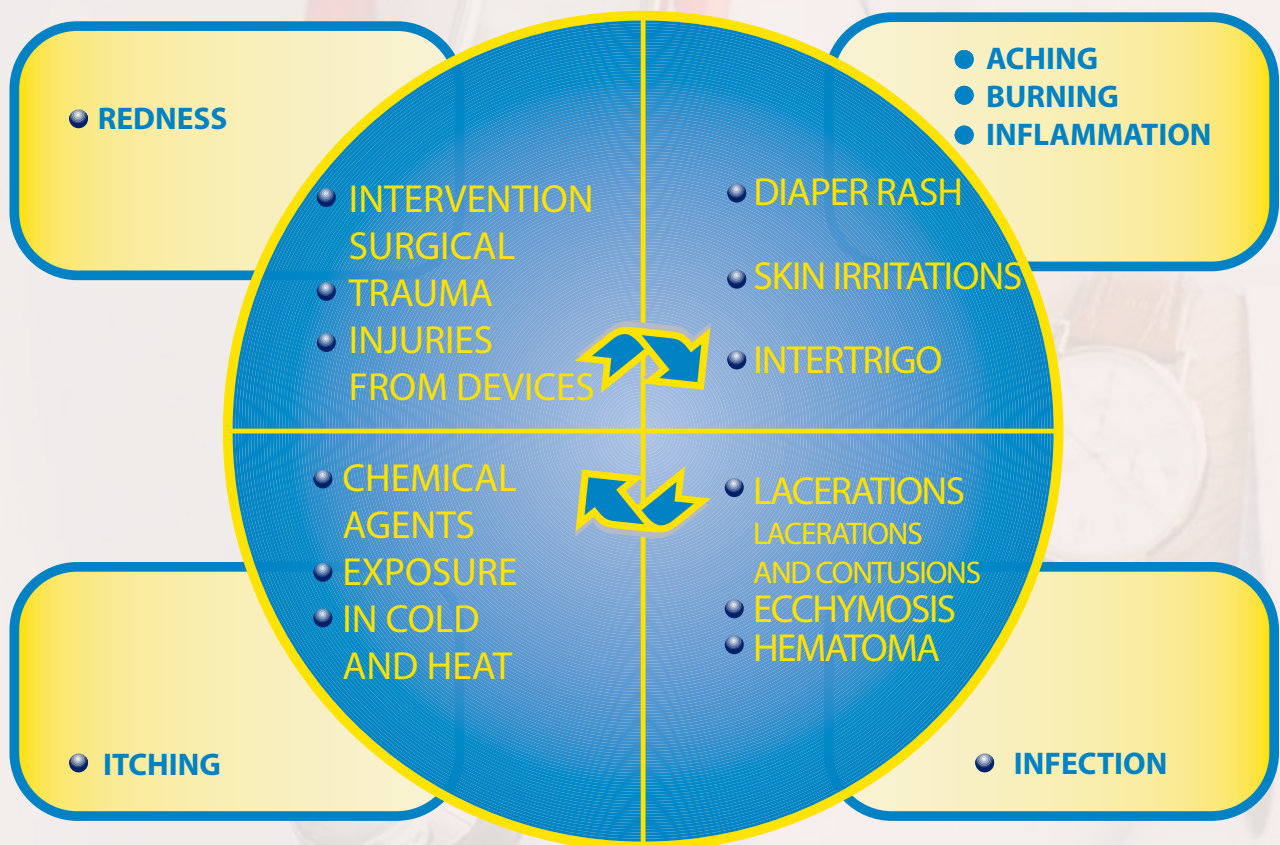
Unique and complete treatment
in tissue regeneration and repair

PALINGEN[®] CREAM

In Surgery

Unique and complete treatment in tissue regeneration and repair

DIAGNOSTIC PROCESS AND SYMPTOMS



WOUND WITH INFECTION



WOUND WITH SIGNS OF INFECTION

SCARRING

Physiological response of the body to an acute or chronic wound that leads to final healing with a series of events

Causes of tissue repair delays: :

SYSTEMIC FACTORS

- * Nutritional
- * Immune states
- * Hypoxia
- * Medicines

LOCAL FACTORS

- * Presence of foreign bodies
- * Infections with microorganisms often coming from the patient's skin

Main microorganisms responsible for infections:

- * Staphylococcus aureus (MRSA)
- * Pseudomonas aeruginosa
- * Streptococcus pyogenes
- * Enterococcus faecalis (VRE)
- * Candida albicans

The Solution

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PERFORMS A REASONED THERAPEUTIC PROCESS

Equisetum arvense	Hemostatic action stimulating fibroblasts
Hydrolyzed collagen+ Proline, Hydroxyproline, Arginine	Barrier barrier effect, stimulation of fibroblasts, cellular growth, hemostasis scarring, and re-epithelialization
Beta glyceridic acid	Anti-inflammatory action (similar to cortisone)
Plantago - Aloe - Bisabolol	Soothing, anti-reddening action
Polyhexamethylenebiguanide + EDTA	Broad-spectrum synergic anti-microbial action

Role of PALINGEN[®] CREAM in continuous solutions

MECHANICAL ACTION

Filling Hemostatic

It replaces the missing tissue favoring anchoring and the orientation of fibroblasts for the formation of new tissue.

Cover

It protects the wound from the external environment, maintaining a constantly humid environment.

BIOLOGICAL ACTION ACTIVE

Hemostatic

Platelet activation and coagulation factors.

Of stimulus

It stimulates the proliferation of granulation tissue. Activates fibronectin, monocytes, and the formation of native collagen.

Angiogenic

Stimulates the neoformation of capillaries

ANTI-MICROBIAL ACTION

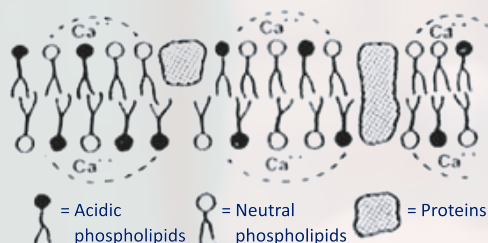
Polyhexamethylenebiguanide + EDTA: It destabilizes the membranes of microorganisms

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promotes neovascularization and with it a better tissue transport satisfying the thorny problem of chronic lesions: hypoxia, Furthermore, it shortens the healing time by intervening on the microorganisms that perpetuate an inflammatory reaction with delayed healing

PALINGEN[®] CREAM ANTI-MICROBIAL ACTION PHMB MECHANISM OF ACTION

The PHMB-PG complexes are formed as a result of the electrostatic attraction between the positive charges of the biguanide groups and the negative charges of the PG molecules. PHMB + EDTA = synergy of action, the M.I.C. increasing effectiveness and tolerability



A- Bacterial cytoplasmic membrane stabilized by Ca^{++}

C- Polyhexamide induces a separation phase of the phospholipids, which has an effect on integral membrane proteins, causes an increase in permeability of the membrane, a flow of ions K^{+} and a loss of enzymatic functions



B- Polyhexamide is placed on the surface of the cations and binds to the phospholipids



D- The destabilized areas assume a hexagonal shape



BURN BEFORE TREATMENT



BURN AFTER TREATMENT

ACTIVITIES **PALINGEN[®]** CREAM ON MICROORGANISMS

ORGANISM TYPE

Aeromonas caviae	Gram-negative bacterium
Aeromonas hydrophila	Gram-negative bacterium
Aspergillus niger	Fungus
Bacillus cereus	Gram-positive bacteria
Bacillus licheniformis	Gram-positive bacterium
Bacillus subtilis	Gram-positive bacterium
Candida albicans	Yeast
Candida glabrata	Yeast
Candida tropicalis	Yeast
Citrobacter amalonatcus	Gram-negative bacterium
Citrobacter freundii	Gram-negative bacterium
Corynebacterium species	Gram-positive bacterium
Enterobacter aerogenes	Gram-negative bacterium
Enterobacter agglomerans	Gram-negative bacterium
Enterobacter cloacae	Gram-negative bacterium
Enterococcus faecalis (VRE)	Gram-positive bacterium
Escherichia coli	Gram-negative bacterium
Gardnerella vaginalis	Gram-positive bacterium
Klebsiella pneumoniae	Gram-negative bacterium
Listeria monocytogenes	Gram-positive bacterium
Proteus mirabilis	Gram-negative bacterium
Proteus vulgaris	Gram-negative bacterium
Providencia alcalifaciens	Gram-negative bacterium
Providencia retgeri	Gram-negative bacterium
Pseudomonas aeruginosa	Gram-negative bacterium
Pseudomonas luteola	Gram-negative bacterium
Pseudomonas stutzeri	Gram-negative bacterium
Saccharomyces cerevisiae	Yeast
Serratia marcescens	Gram-negative bacterium
Streptococcus agalactae	Gram-positive bacterium
Staphylococcus aureus	Gram-positive bacterium
Staphylococcus aureus (MRSA)	Gram-positive bacterium
Staphylococcus epidermidis	Gram-positive bacterium
Staphylococcus lugdunensis	Gram-positive bacterium
Staphylococcus schleiferi	Gram-positive bacterium
Staphylococcus xylosus	Gram-positive bacterium
Stenotrophomonas maltophilia	Gram-negative bacterium
Streptococcus pyogenes	Gram-positive bacterium
Trichomonas vaginalis	protozoan

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plays a role as an “actor” and “not as a mere “spectator as part of the tissue tissue equivalent processes accelerating the healing times preventing infections and modulating scars with

2 Daily APPLICATION

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