

Appendix A

Antimicrobial, Antiseborrheic, and Antipruritic Shampoo Therapy

Ingredient	Therapeutic Effects	Usage	Disadvantages
Chlorhexidine	Antibacterial Antifungal Antiviral	Mild shampoo with excellent antimicrobial activity	
Benzoyl peroxide	Antibacterial Follicular flushing Degreasing Keratolytic	Potent degreasing, follicular flushing shampoo with excellent antibacterial effects Mildly antiseborrheic Good for crusting and oily seborrheic disorders	Drying May irritate skin May bleach fabrics
Chlorhexidine–miconazole combinations	Antifungal Antibacterial	Superior antifungal efficacy compared with single-ingredient products	
Chlorhexidine–ketoconazole combinations	Antifungal Antibacterial	Superior antifungal efficacy compared with single-ingredient products	
Triclosan	Antibacterial	Moderately effective antibacterial ingredient added to shampoos	
Ethyl lactate	Antibacterial Decreases skin pH Degreasing Comedolytic	Mild degreasing, antiseborrheic shampoo with good antibacterial activity Good for dry, scaling seborrhea	
Povidone-iodine	Antibacterial Antifungal Antiviral	Mild shampoo with excellent antimicrobial activity but limited duration of effect	Short duration of effect Staining May irritate skin Thyroid dysfunction Metabolic acidosis
Acetic acid Boric acid	Antimicrobial Decreases skin pH	Good therapy for <i>Malassezia</i> dermatitis	May be irritating
Ketoconazole	Antifungal	Mild shampoo with good antifungal activity	
Miconazole	Antifungal	Mild shampoo with good antifungal activity	
Phytosphingosine	Antimicrobial Antiseborrheic	Mild shampoo	
Lactoferrin Lactoperoxidase Zinc gluconate Lysozymes Potassium iodide	Antimicrobial	Mild shampoo with antimicrobial effects	May be irritating

Ingredient	Therapeutic Effects	Usage	Disadvantages
Sulfur-salicylic acid	Keratolytic Keratoplastic	Moderately well-tolerated shampoo with good antiseborrheic activity Good for crusting or dry seborrheic disorders	
Sodium salicylate Zinc gluconate Pyridoxine	Antiseborrheic Antimicrobial	Good antiseborrheic shampoo without the adverse effects of tar	
Tar	Keratolytic Keratoplastic Degreasing Antipruritic Vasoactive Antiseborrheic	Potent degreasing and antiseborrheic shampoo Good for severe oily seborrheic disorders	Toxic to cats Drying May irritate skin Staining Photosensitization Carcinogenic
Selenium sulfide	Keratolytic Keratoplastic Degreasing Antiseborrheic	Potent degreasing shampoo with good antiseborrheic activity Good for oily seborrheic disorders Moderate activity against yeast	Drying May irritate skin Not for cats
Oatmeal	Decreases prostaglandins Antipruritic Soothing	Mild shampoo with moderate antipruritic activity	
Diphenhydramine	Antipruritic	Mild shampoo with moderate antipruritic activity	Contact sensitivity
Pramoxine	Antipruritic	Mild shampoo with good antipruritic activity	
Hydrocortisone	Anti-inflammatory Antipruritic	Mild shampoo with good antipruritic activity	Immunosuppression Cutaneous atrophy
L-rhamnose Simple saccharides	Antiallergic Antiseborrheic	Mild shampoo that helps prevent allergen penetration	
Menthol	Antipruritic	Added to products to decrease pruritus	May be irritating
Aloe vera	Anti-inflammatory Antibacterial	Added to many products for mild anti-inflammatory effects	
Melaleuca oil Tea tree oil	Anti-inflammatory Antimicrobial	Moderately effective anti-inflammatory with good antimicrobial properties	May be irritating Excessive application may cause toxicity (salivation, neurologic symptoms, hepatotoxicity)
Humectants Propylene glycol Urea Lactic acid Glycerin	Moisturizers	Hygroscopic agents that actively pull water into the skin	

Continued

Ingredient	Therapeutic Effects	Usage	Disadvantages
Emollients Oils Lanolin Paraffin Waxes	Moisturizers	Occlusive agents that decrease transepidermal water loss.	
Ceramides	Antiallergic Antibacterial	Moderately effective at helping restore the lipid barrier and may help prevent allergen penetration	