

Review on the Treatment on Skin Disease Scabies

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Abstract— Information Regarding the Treatment of The Skin Diseases Called as Scabies. It A Common Diseases Worldwide and Which Causes Irritation to Our Skin Causing Severe Itching, Redness, Rashes, Bumps and Pain Sometimes. In This Review We Are Discussing About the Treatments Which Are Very Useful and Effective and Does Not Cause Any Harmful or Adverse Effects Towards Our Skin. Through This Article Many Points Based on The Drugs (Synthetic or Natural) Keys Points Such as Their Working, Characteristics, Properties, Mechanisms, Adverse Effects on Human Body, And Their Pharmacological Properties.

Indexed Terms- Scabies, Anti-Bacterial, Anti-Fungal, Synthetic, Natural Ingredients, Ivermectin, Topical, Neem, Turmeric, Aloe vera.

I. INTRODUCTION

Scabies Is a Skin Parasitic Infection That Is Extremely Irritating. Although It Happens Everywhere, Places with Inadequate Sanitation, High Population Density, And Social Unrest Are More Affected.

In This Review We Are Discussing About the Treatments Which Are Very Useful and Effective and Does Not Cause Any Harmful or Adverse Effects Towards Our Skin. Using Our Method of Drug Dosage, Mixing Synthetic (Ivermectin) And Natural Ingredients Based Products Are Used to Boost and Enhance the Effectiveness of The Drug.

Thorough This Method of Synthetic Plus Natural Mixture We Can Increase the Pharmacological Properties and Mechanism of The Drug and Decrease the Adverse Effect of Synthetic Drug on Our Body.

What Do You Mean by Scabies?

The Sarcotes Scabiei Mite Causes Scabies, An Irritating Parasitic Illness of The Skin. The Issue Is

More Prevalent in Regions with Inadequate Sanitation, Overcrowding and Social Upheaval.

The S. Scabiei Life Cycle Begins with A Pregnant Female Laying Two or Three Eggs Every Day in Burrows Ranging in Length from Millimeters to Centimeters in The Stratum Corneum (Outermost Layer of Skin). After 50-72 Hours, The Larvae Emerge and Form New Burrows. They Mature, Mate, And Then Repeat The 10-17 Day Cycle. They Typically Live For 30-60 Days. Mice Can Survive Outside the Human Body for Up to Three Days. Scabbing Can Cause Skin Irritation and Serious Complications Such as Sepsis, Heart Disease, And Kidney Problems. It Is Treated with Creams or Orally Administered Medications.

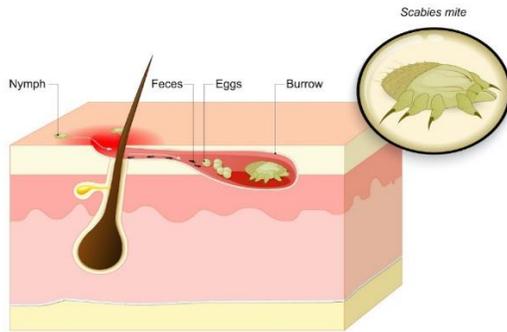
Pathophysiology Of Scabies

The Upper Layer of The Skin, Where the Adolescent Female Lays Eggs, Is Penetrated by Scabies Mites. In Three to Four Days, Eggs Hatch, And in One to Two Weeks, They Reach Adult Size. The Patient Has Severe Itching and Redness for Up to Four to Six Weeks as A Result of An Allergic Reaction to The Presence of Feces and Mineral Proteins in The Cavity.

What Attracts Scavengers:

Attracted To Warmth and Odour, The Female Mite Burrows into A New Host, Lays Eggs and Produces Serexion That Provoke an Allergic Reactions

Scabies



Symptoms

Intense Itching, Particularly at Night, As Well As A Rash in Regions Where the Mites Burrow. Additional Symptoms Include Erythematous Papules, Excoriations, Linear Scratch Marks, Dermatitis, Nodules, Crusting, And Vesicles. Transmission Scabies Spreads by Direct Skin Contact or The Sharing of Contaminated Materials Such as Bedding, Clothes, Or Towels. It Can Spread Swiftly in Crowded Areas

Types Of Scabies

The Three Main Types of Scabies

- Typical Scabies: The Most Common Type, Causing Itching on The Hands, Wrists, And Other Areas
- Nodular Scabies (Non-Crusted): Causes Itchy, Raised Bumps That Usually Develop in The Armpits, Finger Webbing, Or the Genital Areas. This Type Is More Common Among Children

- Crusted Scabies:

Also Known as Norwegian Scabies, This Is a Severe and Extremely Contagious Type of Scabies. It Produces Thick Gray Skin Crusts Containing Thousands of Scabies Mites. This Condition Is Life Threatening

Synthetic Drugs

What Is Meant by Synthetic Drug?

Substances That Are Artificially Altered from Natural Drugs Are Known as Synthetic Drugs, And They Can Have Both Therapeutic and Psychological Effects.

A Synthetic Substance Is One That Is Created Artificially Through Synthesis as Opposed to Being Produced Naturally. It Can Also Be a Substance or Compound Created by Any Chemical Reaction That Is Controlled by Humans.

The Dosage Forms Available for The Treatment of Scabies Worldwide

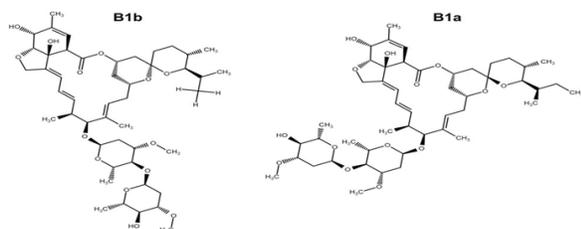
- Sulfur Topical (Sulpho-Lac, Sulfolo)
- Despite Not Having Fda Approval for Scabies Treatment, This Is the Oldest Scabicide. One Of the Only Safe Scabidical Agents That Can Be Used on Pregnant Women and Very Little Children (Less Than Two Months Old) Is Topical Sulfur.

Only When a Patient Is Unable to Tolerate Permethrin, Lindane, Or Ivermectin Should Sulfur Be Used. 2-10% (6% Preferred) Creams or Lotions Are Available.

- Crothamiton (Eurax)
- The Mechanism of Action of Crothamiton, A 10% Cream or Lotion Used to Treat Scabies, Is Unknown, And the Drug Is Linked to Frequent Treatment Failures.

- Ivermectin (Stromectol)

The Ivermectin Group Of Antibiotics Contains The Synthetic Macrocyclic Lactone Ivermectin. It Is Active Against A Variety Of Endoparasites And Ectoparasites Of Humans And Animals, However It Lacks Antibacterial Properties. In Situations When Topical Therapy Is Challenging Or Ineffective, Such As In Widespread Institutional Infections And Bedridden Patients, Ivermectin Is A Perfect Agent. Patients With Crusted Scabies May Need Three Or More Doses, Spaced One To Two Weeks Apart. In The Treatment Of Scabies, Studies Comparing The Effectiveness Of Ivermectin And Benzoyl Benzoate Lotion Discovered That The Former Was At Least As Effective As Other Synthetic Drugs And Caused Faster Improvement.



What Is Ivermectin ?

A Drug That Antiparasitic Is Ivermectin. Following Its Discovery In 1975, It Was Initially Used In Veterinary Medicine To Treat And Prevent Acriasis And Heart Problems. It Is Used To Treat Infections Such As Head Lice, Scabies, River Blindness (Onchocerciasis), Trichomoniasis, And Sarcopenia. It Was Approved For Use In Humans In 1987. It Kills The Targeted Parasites Through A Variety Of Mechanisms And Can Be Used Topically For External Infestations Or Taken Orally. It Is A Member Of The Avermectin Medication Family.

- Trade Names :
Stromectol
Other Names (Mk-933)

- Routes Of Administration:
By Mouth, Topical

Pharmacokinetic Data

BIOAVAILABILITY	NOT DETERMINED
PROTEIN BINDING	93%
METABOLISM	LIVER
ELIMINATION HALF-LIFE	38.9/20.8 h
EXCRETION	FECES; <1% URINE
IUPAC NAME	(22,23-dihydro)ivermectin B _{1a} + 22,23-dihydro)avermectin B _{1b})

Natural Ingredients Persuaded for The Enhancement Of The Product

What Are Natural Ingredients ?

Natural Ingredients Are The Ingredients That Are Extracted From Plants Or Animal Products, And Are Not Produced Synthetically . They Are Grown,

Harvested, And Processed In An Ecological Way , And Do Not Contain Petrochemicals Or Gently Modified Organisms (Gmos)

- Some Examples :
 - Neem : Neem Is Large Tree Native To India Used For Medicinal Purposes Since Ancient Times And Has Anticancer, Antiseptic And Anti-inflammatory Properties.
 - Turmeric : A Spice That Contains Antioxidants And Can Promote Healthy Cholesterol Levels.
 - Aloe Vera: A Natural Ingredients That Contains Vitamins , Minerals, And Amino Acids. It Can Soothe And Hydrate The Skin , And Minimize Irritation.
 - Honey: A Natural Product That Contains Bee Pollen, Bee Polyphenols, And Antioxidants.
 - Coconut Oil: A Multipurpose Ingredients That Can Be Used As A Moisturizer. Its Fatty Acids Are Good For Dry Skin.
 - Green Tea: Made From Unfermented Leaves , Green Tea Contains Polyphenols, Which Are Powerful Antioxidants.

- ✓ Neem (Azadirachta Indica)
Apperance : Neem Trees Are Broad-Leaved Evergreens And Their Leaves Are Compound With Toothed Leaflets
Origin : Neem Is Likely Native To The Indian Subcontinent And Dry Areas Of South Asia.
Biological Source : Neem Is A Member Of The Mahogany Family , Meliaceae.
Properties : Anti-inflammatory , Antibacterial , Antifungal



- ✓ Turmeric (Curcuma Longa)

Appearance: It Has Long , Oblong Leaves And Yellow Flowers That Rippen In The Roots

Origin : Turmeric Is Native To Southeast Asia And Is Thought To Have Originated In Western And Southern India

Biological Source : The Source Of Turmeric Is The Rhizome (Underground Stem)Of The Curcuma Longa Plant , Which Is Native To Tropical South Asia .

Properties: Anti-Inflammatory, Antioxidants, Antimicrobial.



✓ Aloe Vera (Aloe Barbadensis Miller)

Appearance : The Leaves Are Fleshy , Triangular And Arranged In A Rosette . They Can Be Light Green Or Grey In Colour And Sometimes Have White Spots.

Origin : Aloe Vera Is Native To Arabian Peninsula , Africa , And Madagascar.

Biological Source : The Biological Source Of Aloe Is Dried Latex Of Leaves Of It .

Properties : Wound Healing , Anti-Inflammatory , Antibacterial And Antiviral.



Ingredients For The Product

✓ Synthetics :
Ivermectin

Sls (Sodium Lauryl Sulfate)
Sles (Sodium Laureth Sulfate)
Cocamidopropyl Betaine
Decylglucoside
Fragrance

✓ Natural Ingredients :
Neem
Turmeric
Aloe Vera
Other Organic Materials

CONCLUSION

With The Help Of This Article We Conclude The Information About The Various Sources , Mechanism , Properties, Working Of The Drug Within And Upon Our Human Body .

Through This Review, We Discuss About The Pros And Cons Of The Synthetic Drug And The Natural Ingredients .

Synthetic Drugs	Natural Drugs
Artificially Modified Substances From Natural Drugs Are Known As Synthetic Drugs, And They Can Have Both Therapeutic And Psychological Effects.	Natural Ingredients Are The Ingredients That Are Extracted From Plants Or Animal Products, And Are Not Produced Synthetically
They Have Rapid Onset Of Action On Our Body	They Have Slow And Progressive Onset Of Action On Our Body
May Cause Adverse Effects On Our Body	It Is Naturally Produced, So Does Not Cause Or Has Adverse Effects
Synthetic Drugs Have Shorter Duration Of Action Till Its Elimination Time From Our Body	Natural Drugs Take Time But Have Longer Duration Of Action In Our Lifestyle

“Synthetic” Or “Natural” Both Can Have Good Results Regarding The Characteristics Of The

Diseases And Can Vary Depending Upon The Immune Of People To People.

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