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DESCRIPTIONCOMPOSITION FOR THE TREATMENT OF SKIN CONDITIONSBACKGROUND OF THE INVENTION

This application claims the priority of U.S. Provisional Patent Application Ser. No
5 60/267,978, filed February 9, 2001.

1. Field of the Invention

The present invention concerns safe, effective topical compositions for the removal and prevention of skin conditions.

2. Description of Related Art

10 Acrochordon carriers have suffered for thousands of years, due to the lack of a safe, convenient treatment for the removal and prevention of acrochordons. Medical practitioners since ancient times have searched for a solution to the acrochordon problem. Nevertheless, even today practitioners typically advise no treatment unless a specific acrochordon causes a problem, for example, due to pedicle strangulation. A survey of the medical literature back to
15 450B.C. produces no evidence of advice a medical practitioner has given for the prevention of acrochordons.

The word acrochordon does not appear in the patent files of the United States of America. It is believed that prior methods for acrochordon removal and prevention are lacking because the methods so far employed have produced such unsatisfactory results. Prior methods
20 of acrochordon removal produced bleeding, scarring, infection, pain, long recovery time, contamination, hypo pigmentation and hyper pigmentation. Previously known methods of acrochordon removal by medical practitioners include twisting, clamping, pulling, yanking, choking, burning, freezing, shocking, cutting and micro-waving. Several methods of acrochordon removal currently in use by medical practitioners pose a significant risk of
25 hepatitis B, human papillomavirus and human immunodeficiency virus contamination to patients and medical personnel alike.

The Greek physician Hippocrates, c.460-c.370 B.C., recognized as the father of medicine, originated the name *akrochordon* meaning "like a chord" to the nasty, detestable, repugnant, disfiguring pedunculated excrescences of cutaneous tissue his pleading patients
30 found sprouting from their integument. The best efforts of Hippocrates over a period of many years did not result in a safe, convenient, dependable treatment for the removal and prevention



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of acrochordons. Hippocrates, in all probability, finally realized it superior to defer treatment of acrochordons in order to avoid patient dissatisfaction or to increase the cost of acrochordon removal in order to accommodate only the most insistent acrochordon removal requests, as is done by current medical practitioners.

5 Aulus Cornelius Celsus, c.A.D.3-c.A.D.6, considered the greatest Roman medical writer, who recommended cleanliness and the washing of wounds with antiseptic substances such as vinegar, spoke of acrochordons as tumors resembling warts. According to Celsus, "one kind the Greeks called *akrochordon*, wherein is a development of something hard and uneven under the skin, the latter retaining its natural color". The methods of acrochordon removal
10 employed by Aulus Cornelius Celsus were for the most part probably similar to the methods originated by the father of medicine, Hippocrates.

Paulus Aegineta, 700A.D., referred to the cellular tissue polypi known as acrochordons thusly: "The akrochordon is a small rising of the surface, free of pain, callous, for the most part round and heavy, a narrow base so as to appear to hang. It is so called from its resemblance to
15 the end of a cord." No doubt acrochordon removal techniques utilized in the time of Paulus Aegineta were not dissimilar to the acrochordon removal methods employed by the great medical men such as Hippocrates, Galen, Celsus, Dioskurides and Orebiasis.

The nosology of acrochordons is replete with controversies in both classification and description of the pedunculated excrescences of cutaneous tissue known as acrochordons. The
20 ninth class of Plenck's classification published in 1777 includes *excrecentiae cutaneae*, and under this head warts are included, of which he makes nine varieties, the second of which are pendulous warts (*hängende, warze, stengelwarze*), which include acrochordons, which he says hang from the skin by means of a little stem.

Erasmus Wilson, a prominent nineteenth century dermatologist, in his chapter on
25 developmental and nutritive affections in the seventh edition of his authoritative dermatology book entitled *Diseases of the Skin* published in Philadelphia in 1868, considers these pendulous growths of the skin under the term "ecphyma" and allied to warts. Dr. Wilson classifies ecphyma under two varieties: ecphyma mollusciforme and ecphyma acrochordon.

The first variety, ecphyma mollusciforme, is a prominence of the skin produced by
30 simple growths of the integument, more or less pedunculated, sometimes sessile, of sizes between a pea and a walnut. Conventional removal methods of this type of soft fibroma do not differ to any appreciable degree from the conventional methods employed for acrochordons.

Compositions of the present invention may be specially formulated to provide for the satisfactory elimination of this type of cutaneous lesion.

The second variety, ecphyma acrochordon, that Dr. Wilson felt were a diminutive form of ecphyma mollusciforme, are by far the most common and are the main subject matter of the present invention.

In 1905, Dr. Samuel M. Brickner described a new clinical entity, 'Fibroma Molluscum Gravidarum', in a presentation to the obstetrical section of the New York Academy of Medicine.

Acrochordon nosochthonography indicates a total global affliction situation with perhaps higher acrochordon concentrations in the colder climates where acrochordon afflictees practice high occlusion and heavy carbohydrate consumption combined with Nordic ancestry.

At the Institute of Dermatological Clinic and the Department of Cellular & Developmental Biology in the 'La Sapienza' University of Rome, human papillomavirus DNA has been detected in acrochordons by using polymerase chain reaction assays. Human papillomavirus is an epitheliotropic virus associated with benign cutaneous and mucosal lesions (cutaneous warts, genital condylomas and laryngeal papillomas) and less frequently with malignant tumours.

The finding that HPV 6/11 is present in a high percentage of biopsies from acrochordons suggests that this virus may be involved in the pathogenesis of these cutaneous lesions. No significant correlation was found between the presence of HPV DNA in acrochordons and their localization, sex or age of patients; they shared only a significant overweight condition. In the view of doctors C. Dianzini, S. Calvieri, A. Pierangeli, M. Imperi, M. Bucci and A. M. Degener, working under a partly supported grant from Institut Pasteur/Fondazione Cenci Bolognetti, the clinical behaviour of acrochordons is such that they spread locally in the same subject but rarely to other individuals. The low quantity of HPV DNA present in acrochordons may be explained by mutations or deletions of the HPV genome and may also correlate with the clinical evolution of these lesions. While the presence of HPV sequences in acrochordons cannot be considered as proof of an aetiological role, the expression of early viral genes may contribute to the deregulation of cell cycling. In the presence of HPV DNA, the degree of cellular differentiation and mechanical friction seem to be significant cofactors in the pathogenesis of acrochordons. The almost constant association between HPV DNA and acrochordons indeed suggest a role for HPV in the pathogenesis of these cutaneous lesions. The demise of the HPV in acrochordons by treatment with the present invention may

explain why so few reoccur after treatment with the present invention for acrochordon removal and prevention.

Electrocautery, not unlike the red-hot iron torture much in favor during the Middle Ages, is noted for the high smoke output and pungent odor of burning acrochordons. Often times when other patients in the waiting room get a waft of the odor resulting from the use of the electrocautery device in use they reconsider treatment.

High-frequency electrosurgery has provided dermatology and other areas of medicine with an efficient means of tissue destruction and hemostasis. When electrosurgery is used for simple office procedures, little attention is given to risks of contamination. Indirect contamination can occur as a result of the aerosolization of blood droplets secondary to mechanical actions at the high-frequency electrosurgery site. Hepatitis B or human immunodeficiency disease might be spread through aerosolized microdroplets of blood and electrosurgical smoke. Every medical practitioner and dermatologist who practices high-frequency electrosurgery should thus provide surgical masks and eye protection to everyone in the premises and sterilize all exposed surfaces.

Electrocoagulation incorporates the patient into the electrical circuit with the use of a dispersive electrode plate. This dispersive electrode plate allows the machine to deliver a larger amount of current to the patient. Electrocoagulation occurs when electrosurgical current is applied to the tissue with resistance (ohmic) heat production that cooks tissue. The cooked tissue produces aerosolized microdroplets of blood and electrosurgical smoke. The mechanical action of electrosurgical current entering tissue can give rise to very small blood droplets that can travel a great distance. These droplets get scattered all about the surgical field. Of further concern is the problem of the microdroplets that cannot be seen but may be inhaled or received through the conjunctival surfaces.

Electrodesiccation is the superficial dehydration of tissue as a result of the passage of high-frequency current. Acrochordon removal with electrodesiccation has not proven to be very successful.

The smoke generated by laser surgery is capable of carrying viable viral particles. Acrochordon elimination attempts with various lasers commonly used in dermatology such as the carbon dioxide, erbium:YAG, and ND:YAG have been so disappointing that not one article has appeared regarding the success of lasers with acrochordon elimination in a controlled clinical study.

Cryosurgery of acrochordons with liquid nitrogen and carbon dioxide has been found to cause dischromic patches due to freezing of the skin surrounding the base of the pedicle. Monfrecola *et al.* propose a solution to the dischromic patch problem produced by cyrosurgery of acrochordons whereby the acrochordon is once again crushed with a clamp and this time the
 5: clamp is frozen instead of left hanging for fifteen minutes. The crushed and frozen acrochordon swells up after four days and then dies after 7 to 10 days. Recovery of the patient takes up to three weeks versus short recovery time using the present invention.

The most recent acrochordon removal method described in a medical journal is by Germaine D. Strother. In the on-line journal *Clinician Reviews*®, Doctor Strother details a
 10: procedure whereby a surgical clamp is used to crush the base of the acrochordon for fifteen minutes. The clamp is then removed and the acrochordon is cut off with scissors and a bandage applied. Doctor Strother does not say what she does when the patient has multiple acrochordons as is almost always the case. If a patient has, for example, more than thirty acrochordons, then Dr. Strother's procedure would take eight hours, not including time for
 15: cleaning and preparing the lesion and surrounding area or post treatment bandaging. If, on the other hand, Doctor Strother uses more than thirty surgical clamps, one at the base of each acrochordon, patient tolerance is assuredly lost. It is procedures such as the Strother acrochodonectomy that emphasize the need for the present invention for acrochordon removal and prevention.

20: Acrochordons are the fifth leading cause of visits to dermatologists, according to Henry H. Roenigk, Jr. M. D., a leading dermatologists with the Mayo Clinic in Scottsdale, Arizona. Since the start of his practice in dermatology, Dr. Roenigk has had no suitable acrochordon treatment for his patients. These patients often times also have carbohydrate intolerance, obesity, diabetes mellitus, colonic polyps, acromegaly, Birt-Hogg-Dube syndrome,
 25: human papillomavirus infection, polycystic ovarian disease and/or depression which are all correlated with acrochordons.

In 1987, Banik and Lubach discovered that 46% of the people checked had acrochordons. Banik and Lubach also state the relevant dermatological literature does not contain any details on the frequency of skin tags with regard to age and sex, but we may
 30: surmise millions of people to be suffering worldwide. The high percentage of persons with acrochordons emphasizes the need for the present invention for acrochordon alleviation.

Twenty-five dermatologists and medical doctors in metropolitan practice were surveyed as to acrochordon removal method, side effects, pricing, insurance reimbursement, and

appointment lead-time. Fifty-two percent of the dermatologists surveyed used the inject, cut, burn, bandage method of acrochordon removal with no form of acrochordon prevention. Forty-eight percent of the dermatologists and medical doctors surveyed used the freeze, cut, thaw and bandage technique. All of the dermatologists and medical doctors surveyed reported
5 scarring after their particular type of treatment. None of the dermatologists or medical doctors surveyed reported using any type of topical treatment, clearly pointing to the need for the present invention for acrochordon alleviation.

SUMMARY OF THE INVENTION

10 The present invention overcomes these and other drawbacks in the art by providing improved treatments for the alleviation of acrochordons. More particularly, it is a goal to provide a safe, effective means of removing even large numbers of acrochordons anywhere on the carrier.

There is provided, according to the present invention various embodiments of products
15 designed for skin conditions afflicted person, for example, acrochordon afflicted person, to apply at home to remove unwanted skin conditions. Skin conditions, for example, acrochordon type and location determine which specific skin condition product and method is to be employed.

Reactive oxygen species such as the superoxide anion, hydrogen peroxide and hydroxyl
20 radicals are utilized to remove skin conditions, for example, acrochordons. In particular, hydrogen peroxide in a concentration far above levels encountered in mammalian metabolism is applied until the offending skin condition is eliminated from the skin.

Accordingly, the present invention provides the use of hydrogen peroxide in a concentration of at least 23 percent for the preparation of a composition for the treatment of
25 skin conditions on afflicted person or domesticated animal. In particular, the concentration of hydrogen peroxide is from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, from about 43 percent to about 48 percent.

The invention also provides the use of hydrogen peroxide in a concentration of at least 23
30 percent and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic

precursor, for the preparation of a composition for the treatment of skin conditions on afflicted person or domesticated animal. In particular, the concentration of hydrogen peroxide is from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, or from about 43 percent to about 48 percent.

The skin conditions comprises, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.

The invention also provides a method for the cosmetic removal of skin conditions comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent; and (b) applying said composition to the skin condition of an afflicted person or domesticated animal. The skin condition comprises removal of actinic keratoses, rosacea, onychomycosis, hyperpigmentation, rhytides, psoriasis and benign acrochordons. The concentration of hydrogen peroxide may be from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, or from about 43 percent to about 48 percent.

The invention also provides a method for the cosmetic removal of skin conditions comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic precursor; and (b) applying said composition to the skin condition of an afflicted person or domesticated animal. The concentration of hydrogen peroxide may be from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, or from about 43 percent to about 48 percent. The method of claim 126, wherein the skin conditions comprises removal of actinic keratoses, rosacea, onychomycosis, hyperpigmentation, rhytides, psoriasis and benign acrochordons.

The invention also provides a composition comprising at least 23 percent of hydrogen peroxide for use in medicine. The concentration of hydrogen peroxide may be from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, or from about 43

percent to about 48 percent. The composition may be used for the treatment of skin conditions on afflicted person or domesticated animal. The skin conditions comprises, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.

The invention also provides a composition comprising at least 23 percent hydrogen peroxide and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic precursor for use in medicine. The concentration of hydrogen peroxide may be from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, or from about 43 percent to about 48 percent. The composition may be used for the treatment of skin conditions on afflicted person or domesticated animal. The skin conditions comprises acrochordons, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.

The composition may further comprise at least one vitamin. The vitamin may be selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin. The vitamin may be L-ascorbic acid.

The composition may further comprise at least one amino acid. The amino acid may be selected from the group consisting of tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonin, cysteine, cystine, methionine, asparagine, glutamin, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine and carnosine. The amino acid may also be L-carnitine.

The composition may further comprise at least one melanin inhibitor. The melanin inhibitor may be selected from the group consisting of hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma-L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid, glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricaffeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethicin methacin,

erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, chitosan, superoxide dismutase, melanostatin, S-lactoyl glutathione, and hydroquinone glycoside. Preferably, the melanin inhibitor is kojic acid.

The composition further comprises at least one organic acid. The organic acid may be selected from the group consisting of lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid, tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid, arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid and hexahydroxyheptanoic acid. The organic acid may be L-lactic acid.

The composition further comprises at least one hormone. The hormone may be selected from the group consisting of dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone and human growth hormone.

The composition may further comprise at least one sulfoxide. The sulfoxide may be selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide. Preferably, the sulfoxide is dimethylsulfoxide.

The composition may further comprise at least one alcohol. The alcohol may be selected from the group consisting of ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-butanol, 2-pentanol and benzyl alcohol. Preferably, the alcohol is ethanol.

The composition may further comprise at least one fatty acid. The fatty acid may be selected from the group consisting of valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric acid, lauric acid, myristic acid, stearic acid, oleic acid and caprylic acid. Preferably, the fatty acid is myristic acid.

The composition may further comprise at least one fatty acid ester. The fatty acid ester may be selected from the group consisting of isopropyl myristate, isopropyl palmitate, octyldodecyl myristate, ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate, diethyl sebacate and ethyl oleate. Preferably, the fatty acid ester is isopropyl palmitate.

The use composition may be applied by brush, dropper, atomizer, injector, sprayer or pipette.

The composition may further comprise at least one polyol. The polyol may be selected from the group consisting of propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol and glycerol. Preferably, the polyol is propylene glycol.

The composition may further comprise at least one amide. The amide may be selected from the group consisting of urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldecamide, hexamethylenelauramide, diethanolamine and triethanolamine. Preferably, the amide is dimethylformamide.

The composition may further comprise at least one surfactant. The surfactant may be selected from the group consisting of sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, Poloxamer (231,182,184), Brij (30,93,96,99), Span (20,40,60,80), Myrj (45,51,52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin. Preferably, the surfactant is lecithin.

The composition may further comprise at least one terpene. The terpene may be selected from the group consisting of D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone, piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus. Preferably, the terpene is cyclohexene oxide.

The composition may further comprise at least one alkanone. The alkanone may be selected from the group consisting of *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane and *N*-hexadecane. Preferably, the alkanone is *N*-octane.

The composition may further comprise aloe vera. The composition may further comprise at least one gamma linolenic precursor. The gamma linolenic acid precursor may be selected from the group consisting of borage oil, black currant oil and evening primrose oil.

In another aspect of the invention, a method is provided for the removal of acrochordons comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent; (b) and applying said composition to an acrochordon on an acrochordon afflicted person or domesticated animal. In certain embodiments of the invention, a concentration of hydrogen peroxide used may be least 23, 27, 30, 35, 40, 43 or at least 48 percent and may also be from about 23 percent to about 60 percent; from about 35 percent to about 60 percent; from about 35 percent to about 40 percent, from about 40 percent to about 50 percent and from about 43 percent to about 48 percent.

In another aspect of the invention, a composition used in accordance with the methods of the invention may comprise ingredients in addition to hydrogen peroxide, for example, at least one vitamin. In one embodiment of the invention, the vitamin is selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin and may also be L-ascorbic acid.

The composition may also comprise at least one amino acid, including, for example, tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonine, cysteine, cystine, methionine, asparagine, glutamine, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine, and carnosine. In one embodiment of the invention,
 5 the amino acid is L-carnitine.

In another aspect of the invention, a composition used in accordance with the methods of the invention may comprise at least one melanin inhibitor. Examples of such melanin inhibitors include hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma-L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid,
 10 glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricaffeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethacin methacin, erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, chitosan, superoxide dismutase,
 15 melanostatin, S-lactoyl glutathione, and hydroquinone glycoside. In one embodiment of the invention the melanin inhibitor is kojic acid.

In still yet another aspect of the invention, a composition used in accordance with the methods of the invention may comprise at least one organic acid. Examples of such an organic acid include lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid,
 20 tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid,
 25 arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid, and hexahydroxyheptanoic acid. In one embodiment of the invention, the organic acid is L-lactic acid.

In still yet another aspect of the invention, a composition used in accordance with the
 30 methods of the invention may comprise at least one hormone. Examples of such hormones include dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone, human growth hormone and melatonin. A composition used with the invention may also comprise at least one sulfoxide. Examples of such a sulfoxide

include is selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide. In one embodiment of the invention, the sulfoxide is dimethylsulfoxide.

In still yet another aspect of the invention, a composition used in accordance with the methods of the invention may comprise at least one alcohol, including ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-butanol, 2-pentanol, benzyl alcohol and ethanol. The composition may also comprise at least one fatty acid, including valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric acid, lauric acid, myristic acid, stearic acid, oleic acid, caprylic acid and myristic acid. The composition may still further comprise at least one fatty acid ester, including isopropyl myristate, isopropyl palmitate, octyldodecyl myristate, ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate, diethyl sebacate, ethyl oleate and isopropyl palmitate. The composition may also comprise at least one polyol, including propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol, glycerol and propylene glycol. The composition may also comprise at least one amide, including urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldecamide, hexamethylenelauramide, diethanolamine, triethanolamine and dimethylformamide.

In still yet another aspect of the invention, a composition used in accordance with the invention may be applied with a brush, dropper, atomizer, injector, sprayer, or pipette.

In still yet another aspect of the invention, a composition used in accordance with the invention may comprises at least one surfactant, including sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, Poloxamer (231, 182, 184), Brij (30, 93, 96,99), Span (20, 40, 60, 80), Myrj (45, 51, 52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin. A composition used may also comprise at least one terpene, including D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone, piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus. The composition may also comprise at least one alkanone, including *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane, and *N*-hexadecane. The composition may still further comprise aloe vera. In still yet another aspect of the invention, a composition used in accordance with the invention may

comprise at least one gamma linolenic precursor, including borage oil, black currant oil, and evening primrose oil.

In still yet another aspect, the invention provides a method for the removal of acrochordons comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent and at least one compound selected from the group consisting of a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera, and a gamma linolenic precursor; and (b) applying said composition to an acrochordon on an acrochordon afflicted person or domesticated animal. In certain embodiments of the invention, the concentration of hydrogen peroxide is at least 23, 27, 30, 35, 40, 43 or 50 %, including from about 23 percent to about 60 percent, from about 35 percent to about 60 percent, from about 35 percent to about 40 percent, from about 40 percent to about 50 percent, and from about 43 percent to about 48 percent. In one embodiment, the composition may additionally comprise kojic acid, dimethylsulfoxide, melatonin, L-ascobic acid and ethanol; including about 26 percent hydrogen peroxide, 2 percent kojic acid, 12 percent dimethylsulfoxide, .5 percent melatonin, 1 percent L-ascobic acid and 15 percent ethanol. In another embodiment of the invention, the composition may additionally comprise lactic acid, niacin, testosterone, licorice root extract, and β -phenylpyruvic acid; including a composition of 47 percent hydrogen peroxide, 14 percent lactic acid, 2 percent niacin, 2 percent testosterone, 1 percent licorice root extract, and .5 percent β -phenylpyruvic acid. In yet another embodiment of the invention, the composition may additionally comprise L-tyrosine, phenylalanine, tricaffeoylquinic acid and ethanol; including a composition of 23 percent hydrogen peroxide, 2 percent L-tyrosine, 2 percent phenylalanine, 1 percent tricaffeoylquinic acid, and 18 percent ethanol.

In the method, the composition may also additionally comprise lactic acid, glycolic acid, salicylic acid, citric acid, and ethanol; including a composition of about 23 percent hydrogen peroxide, 4 percent lactic acid, 4 percent glycolic acid, 4 percent salicylic acid, 4 percent citric acid, and 20 percent ethanol. The composition may also comprise dimethylsulfoxide; including a composition of about 35 percent hydrogen peroxide and 35 percent dimethylsulfoxide. The composition may still further comprise L-ascorbic acid, niacin, glycine, hydroquinone, superoxide dismutase, galacturonic acid and ethanol; including a composition of about 35 percent hydrogen peroxide, .5 percent L-ascorbic acid, .5 percent niacin, .5 percent glycine, .5 percent hydroquinone, .5 percent superoxide dismutase, 5 percent

galacturonic acid and 14 percent ethanol. In another embodiment of the invention, the composition may additionally comprise decylmethylsulfoxide; including a composition of 60 percent hydrogen peroxide and 6 percent decylmethylsulfoxide.

The present invention also provides:

1. A method for the removal of acrochordons comprising:
 - (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent; and
 - (b) applying said composition to an acrochordon on an acrochordon afflicted person or domesticated animal.
2. The method of claim 1, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
3. The method of claim 1, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
4. The method of claim 3, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
5. The method of claim 3, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
6. The method of claim 5, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
7. The method of claim 1, wherein the composition further comprises at least one vitamin.
8. The claim 7, wherein the vitamin is selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin.
9. The method of claim 8, wherein the vitamin is L-ascorbic acid.
10. The method of claim 1, wherein the composition further comprises at least one amino acid.
11. The method of claim 10, wherein the amino acid is selected from the group consisting of tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonine, cysteine, cystine, methionine, asparagine, glutamine, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine and carnosine.

12. The method of claim 11, wherein the amino acid is L-carnitine.
13. The method of claim 1, wherein the composition further comprises at least one melanin inhibitor.
14. The method of claim 13, wherein the melanin inhibitor is selected from the group consisting of hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma-L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid, glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricaffeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethacin methacin, erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, chitosan, superoxide dismutase, melanostatin, S-lactoyl glutathione, and hydroquinone glycoside.
15. The method of claim 14, wherein the melanin inhibitor is kojic acid.
16. The method of claim 1, wherein the composition further comprises at least one organic acid.
17. The method of claim 16, wherein the organic acid is selected from the group consisting of lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid, tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid, arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid and hexahydroxyheptanoic acid.
18. The method of claim 17, wherein the organic acid is L-lactic acid.
19. The method of claim 1, wherein the composition further comprises at least one hormone.

20. The method of claim 19, wherein the hormone is selected from the group consisting of dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone and human growth hormone.
21. The method of claim 1, wherein the composition further comprises at least one
5 sulfoxide.
22. The method of claim 21, wherein the sulfoxide is selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide.
23. The method of claim 22, wherein the sulfoxide is dimethylsulfoxide.
24. The method of claim 1, wherein the composition further comprises at least one alcohol.
- 10 25. The method of claim 24, wherein the alcohol is selected from the group consisting of ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-butanol, 2-pentanol and benzyl alcohol.
26. The method of claim 25, wherein the alcohol is ethanol.
27. The method of claim 1, wherein the composition comprises at least one fatty acid.
- 15 28. The method of claim 27, wherein the fatty acid is selected from the group consisting of valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric acid, lauric acid, myristic acid, stearic acid, oleic acid and caprylic acid.
29. The method of claim 28, wherein the fatty acid is myristic acid.
30. The method of claim 1, wherein the composition further comprises at least one
20 fatty acid ester.
31. The method of claim 30, wherein the fatty acid ester is selected from the group consisting of isopropyl myristate, isopropyl palmitate, octyldodecyl myristate, ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate, diethyl sebacate and ethyl oleate.
- 25 32. The method of claim 31, wherein said fatty acid ester is isopropyl palmitate.

33. The method of claim 1, wherein the applying step is by brush, dropper, atomizer, injector, sprayer or pipette.
34. The method of claim 1, wherein the composition further comprises at least one polyol.
35. The method of claim 35, wherein the polyol may be selected from the group consisting
5 of propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol and glycerol.
36. The method of claim 36, wherein the polyol is propylene glycol.
37. The method of claim 1, wherein the composition further comprises at least one amide.
38. The method of claim 38, wherein the amide may be selected from the group consisting
10 of urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldécamide, hexamethylenelauramide, diethanolamine and triethanolamine.
39. The method of claim 39, wherein the amide is dimethylformamide.
40. The method of claim 1, wherein the composition further comprises at least one surfactant.
- 15 41. The method of claim 41, wherein the surfactant may be selected from the group consisting of sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, Poloxamer (231, 182, 184), Brij (30, 93, 96,99), Span
20 (20, 40, 60, 80), Myrj (45, 51, 52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin.
42. The method of claim 42, wherein the surfactant is lecithin.
43. The method of claim 1, wherein the composition further comprises at least one terpene.
44. The method of claim 44, wherein the terpene may be selected from the group consisting
25 of D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone,

piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus.

45. The method of claim 45, wherein the terpene is cyclohexene oxide.

46. The method of claim 1, wherein the composition further comprises at least one
5 alkanone.

47. The method of claim 47, wherein the alkanone may be selected from the group consisting of *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane and *N*-hexadecane.

48. The method of claim 48, wherein the alkanone is *N*-octane.

10 49. The method of claim 1, wherein the composition further comprises aloe vera.

50. The method of claim 1, wherein the composition further comprises at least one gamma linolenic precursor.

51. The method of claim 51, wherein the gamma linolenic acid precursor may be selected from the group consisting of borage oil, black currant oil and evening primrose oil.

15 52. A method for the removal of acrochordons comprising:

- (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an
20 alkanone, aloe vera and a gamma linolenic precursor; and
- (b) applying said composition to an acrochordon on an acrochordon afflicted person or domesticated animal.

53. The method of claim 52, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.

25 54. The method of claim 52, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.

55. The method of claim 52, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
56. The method of claim 52, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
- 5 57. The method of claim 52, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
58. The method of claim 52, wherein the composition comprises kojic acid, dimethylsulfoxide, melatonin, L-ascobic acid and ethanol.
59. The method of claim 58, wherein the composition comprises 26 percent hydrogen
10 peroxide, 2 percent kojic acid, 12 percent dimethylsulfoxide, .5 percent melatonin, 1 percent L-ascobic acid and 15 percent ethanol.
60. The method of claim 52, wherein the composition comprises hydrogen peroxide, lactic acid, niacin, testosterone, licorice root extract and β -phenylpyruvic acid.
61. The method of claim 60, wherein the composition comprises 47 percent hydrogen
15 peroxide, 14 percent lactic acid, 2 percent niacin, 2 percent testosterone, 1 percent licorice root extract and .5 percent β -phenylpyruvic acid.
62. The method of claim 52, wherein the composition comprises L-tyrosine, phenylalanine, tricafeoylquinic acid and ethanol.
63. The method of claim 62, wherein the composition comprises 23 percent hydrogen
20 peroxide, 2 percent L-tyrosine, 2 percent phenylalanine, 1 percent tricafeoylquinic acid and 18 percent ethanol.
64. The method of claim 52, wherein the composition comprises hydrogen peroxide, lactic acid, glycolic acid, salicylic acid, citric acid and ethanol.
65. The method of claim 64, wherein the composition comprises 23 percent hydrogen
25 peroxide, 4 percent lactic acid, 4 percent glycolic acid, 4 percent salicylic acid, 4 percent citric acid and 20 percent ethanol.

66. The method of claim 52, wherein the composition comprises dimethylsulfoxide.
67. The method of claim 66, wherein the composition comprises 35 percent hydrogen peroxide and 35 percent dimethylsulfoxide.
68. The method of claim 52, wherein the composition comprises L-ascorbic acid, niacin,
5 glycine, hydroquinone, superoxide dismutase, galacturonic acid and ethanol.
69. The method of claim 68, wherein the composition comprises 35 percent hydrogen peroxide, .5 percent L-ascorbic acid, .5 percent niacin, .5 percent glycine, .5 percent hydroquinone, .5 percent superoxide dismutase, 5 percent galacturonic acid and 14 percent ethanol.
- 10 70. The method of claim 52, wherein the composition comprises decylmethylsulfoxide.
71. The method of claim 59, wherein the composition comprises 60 percent hydrogen peroxide and 6 percent decylmethylsulfoxide.

DETAILED DESCRIPTION OF THE INVENTION

5 The present invention provides an effective method for removal and treatment of unsightly acrochordons while avoiding the pain and scarring that accompanies presently known techniques. The inventors have discovered that providing one or more applications of a composition including hydrogen peroxide with a concentration of at least 23 percent results, surprisingly, in the complete removal of acrochordons, and other unsightly or undesirable skin
10 disorders, without causing scarring. The method of the invention involves a precise topical application of the composition directly to the selected acrochordon. The composition may be left on the treated acrochordon without removal or further treatment after each application.

 Preferred compositions and methods of acrochordon removal and prevention exhibit a high degree of efficacy in accomplishing successful removal and prevention of acrochordons
15 anywhere on the skin including eyelids, groin and axillae. Acrochordon removal and prevention treatments of the present invention may include components with a high degree of bio-compatibility, such as products of mammalian metabolism, components of the electron transport chain and may include hydrogen peroxide, amino acids, vitamins, organic and/or inorganic minerals; alpha hydroxy, beta hydroxy, carboxylic or keto acids, hormones, enzymes,
20 coenzymes and various penetration enhancers. Other components such as botanical actives and/or organic oxides and reductants may also be employed, as is known to those of skill in the art. Such compounds may be contained in a solvent such as water or another solvent compatible with hydrogen peroxide. Further, physiologically acceptable adjuvants may also be chosen, for example, pH-regulating agents, antioxidants, preservatives, pigments and
25 colourings, emollients, antifoams, plant or animal oils or waxes, silicones, perfumes, surfactants, plasticizers, thickening polymers other compounds. Of course, persons skilled in the art will be careful to choose any such optional additional compounds and their quantity so that the active properties of the hydrogen peroxide are not substantially reduced by the addition.

 Some patients may experience a burning or stinging sensation upon the application of
30 the composition, particularly when higher concentrations of hydrogen peroxide are used. While the composition may be left on without further treatment even when a burning or

stinging sensation occurs, it may be desirable to further treat the affected area with a neutralizing composition, such as water or a lotion or cream.

For total depedunculation of the acrochordon to occur, more than one application of the composition to the acrochordon will typically be necessary. It is envisioned that some smaller, 5 narrow base type 1 acrochordons may be removed upon one application with a composition including hydrogen peroxide at higher concentrations, such as about 38 to 55 percent. However, total removal of the acrochordons, which may be treated with the present method will generally require several applications of the compositions described herein over a period of time. The applications may be spaced minutes or hours or days apart. It is preferred that 10 subsequent treatments occur within two or three days of the previous treatment, although they may be as much as a week or two apart. The spacing of the treatments will depend upon such factors as patient sensitivity and type or types of the acrochordons present on the acrochordon afflicted individual.

While described in terms of acrochordon removal, the present invention is also effective 15 in removing other skin conditions. These conditions include corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.

While the method of the invention is surprisingly and unexpectedly effective using a composition including simply hydrogen peroxide at concentrations above about 23 percent, 20 including at least about 27, 30, 35, 40, 43 or 48 percent. As used herein, "percent" means percent by weight (w/w). The compositions for use in the present methods may also include other substances to aid in penetration, to enhance skin lightening, to aid in moisturizing or conditioning the skin, as will be known to those of skill in the art in view of the instant disclosure. For example, other ingredients may be added to improve the skin condition or the 25 effectiveness of the compositions. Vitamins may added to the compositions to aid in improving the skin condition thereby inhibiting the production of subsequent cutaneous anomalies after treatment of the original condition.

Case histories of patients who have had various types of lesions successfully removed using the methods of the invention are provided below. These case histories and the examples 30 that follow are included for illustrative purposes only and are not meant to limit the scope of the invention in any way.

CASE HISTORIES

Case History Number 1

A female acrochordon carrier with possible prolonged symptoms of fibroma molluscum gravidarum or fibroma molluscum gravidarium due to a multiplicity of contributing factors presented at the acrochordon treatment center with sixty three acrochordons. An acrochordon history was completed by the acrochordon carrier and an acrochordon examination was conducted with acrochordon positive confirmation and discovery of a high acrochordon concentration about the front and sides of neck. Acrochordon digital documentation was profusely performed, after which treatment possibilities utilizing treatments described in the present invention were offered to the acrochordonette and accepted with positive enthusiasm.

A conservative treatment approach was employed due to the skin sensitivity factor and the hereditary makeup of the acrochordon afflicted despondent. A multi-step bio-compatible depedunculation treatment protocol was performed utilizing 45 percent hydrogen peroxide and the acrochordoniac was provided with appropriate acrochordon home products and an acrochordon prevention regimen was outlined. Subject returned for a second weekly acrochordon treatment session reporting great satisfaction with the high percentage of acrochordon depedunculation. Third weekly acrochordon treatment session same as second acrochordon treatment session with further acrochordon depedunculation. Fourth weekly acrochordon treatment session revealed remaining acrochordons, which were the most robust at acrochordon treatment initiation, to have lost their external layer and exhibit a pink core that was treated with a gentle removal protocol. Further profuse digital documentation was performed. Fifth and final acrochordon removal treatment session resulted in complete successful elimination of all acrochordons with complete digital documentation. An acrochordon prevention regimen was provided and long-term visits planned to monitor long term results. Further follow up revealed no return of acrochordons with no scarring or pigmentation anomalies.

Case History Number 2

A fifty seven year old male presented with a variety of the seven types of acrochordons belonging most to the pedunculated types with a few of the sessile variety. He had recently married a substantially younger woman and she had displayed disgust of the afflictee's arcochordons on several occasions, prompting the acrochordon carrier to seek alleviation treatment. The medical history revealed a high carbohydrate consumption which

may have been a contributing factor to acrochordon genesis. Examination revealed twenty three acrochordons 2 to 4 millimeters in length and 2 to 3 millimeters in diameter around the neck. The axillae contained approximately a dozen acrochordons on each side which ranged in size from 4 to 7 millimeters in length and 2 to 4 millimeters in diameter. The acrochordons in the axillae were extremely firm and protuberant with a light pink coloration. Some of the acrochordons in the axillae exhibited a thicker peduncle than is usually seen, necessitating more than usual applications with a concentration of 45 percent hydrogen peroxide.

Case History Number 3

Although only one acrochordon was possessed by the twenty eight year old subject, it was located directly under the bra strap beneath the left breast and caused considerable discomfort and irritation over an extended period of time. The less than affluent means of the afflictee balked at the ninety dollar doctor quote for removal by her medical practitioner. Two simple applications of the 35 percent hydrogen peroxide acrochordon alleviation solution for Type II acrochordons were sufficient to provide complete elimination of the offending acrochordon. Follow up at three months showed no indication of re-growth and no scarring.

ACROCHORDON ALLEVIATION STUDY RESULTS

Twenty-one persons afflicted with acrochordons were treated with the present invention. Two persons did not complete the treatment program due to other obligations. The nineteen persons who continued treatment all showed improvement evidenced by complete removal of some or all of their acrochordons after one to five treatments with the present invention. In most instances, it was almost impossible to tell where the acrochordon had been after it depedunculated. On a few subjects, especially those with darkly pigmented acrochordons and fair skin, a small dot remained after acrochordon depedunculation that appears to be fading over time. The procedure was well tolerated by all subjects except two who displayed unusual sensitivity and requested premature application of the neutralizing composition. Most of the acrochordons carriers treated have shown no sign of acrochordon re-growth. One carrier continues to sprout new acrochordons but is willing to continue treatment and has stated he would not do so using a surgical removal method instead of the topical application of the present invention.

The following examples are included to demonstrate preferred embodiments of the invention. It should be appreciated by those of skill in the art that the techniques disclosed in

the examples which follow represent techniques discovered by the inventor to function well in the practice of the invention, and thus can be considered to constitute preferred modes for its practice. However, those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments which are disclosed and still
 5 obtain a like or similar result without departing from the spirit and scope of the invention.

EXAMPLE 1 Type 1 Acrochordon Removal

The following is a general procedure or method for application of the selected agents and compositions for the removal of slender, stalk-like Type 1 acrochordons:

- a. complete medical history form and discuss procedure with the acrochordon afflicted individual
 10
- b. measure and record skin pH
- c. conduct full body examination to locate any various acrochordons overlooked by afflicted person and detect any just-forming acrochordons
- d. photograph acrochordons with 1X, 30X and 50X magnification
- 15 e. degrease acrochordons with acetone
- f. apply neutralizer composition to skin surrounding acrochordon
- g. apply depedunculation composition consisting of 42 percent hydrogen peroxide
- h. accelerate drying with miniature heated forced air dryer
- i. watch for appearance of blanching
- 20 j. make second application of depedunculation composition if necessary
- k. photograph acrochordons with 1X, 30X and 50 X magnification
- l. supply acrochordon afflicted person with Physician's Choice pHaze 17 rebalance cream for application eight hours post depedunculation treatment
- m. inform carrier that acrochordons should spontaneously depedunculate 3 to 6 days
 25 after procedure
- n. re-apply Physician's Choice pHaze 17 rebalance cream to acrochordon skin attachment site after acrochordons depedunculate
- o. have patient check at weekly intervals to insure re-growth does not occur

EXAMPLE 2 Fibrofolliculoma Treatment

30 The following is a general method for the alleviation of the dome-shaped papules known as fibrofolliculomas and trichodiscomas which usually involve the head, neck, chest, back and arms and are frequently associated with acrochordons:

- a. complete medical history form and discuss procedure with the fibrofolliculoma and trichodiscoma afflicted individual
- b. measure and record skin pH
- c. conduct full body examination to locate all fibrofolliculomas and trichodiscomas
- 5 d. photograph fibrofolliculomas and trichodiscomas with 1X, 30X and 50X magnification
- e. cleanse fibrofolliculomas and trichodiscomas with pHaze 1 cleansing composition
- f. apply pHaze 17 neutralizer crème to skin surrounding fibrofolliculomas and trichodiscomas
- 10 g. apply fibrofolliculoma and trichodiscoma apoptotic induction formulation consisting of 43 percent hydrogen peroxide
- h. accelerate evaporation with miniature heated forced air dryer
- i. watch for appearance of blanching
- j. make second application of fibrofolliculoma and trichodiscoma apoptotic induction formulation if necessary
- 15 k. photograph fibrofolliculomas and trichodiscomas with 1X, 30X and 50X magnification
- l. supply fibrofolliculoma and trichodiscoma afflicted individual with pHaze 17 rebalance cream for application eight hours post apoptotic induction treatment
- 20 m. inform fibrofolliculoma and trichodiscoma afflicted individual that apoptotic crust should form after one day and crust should separate after approximately 3 days
- n. re-apply pHaze 17 rebalance cream to fibrofolliculoma and trichodiscoma lesions after crust separation
- o. re-treat fibrofolliculomas and trichodiscomas two days after crust separation
- 25 until complete elimination of lesions

EXAMPLE 3 Type III Acrochordon Depedunculation

Type III fat filled acrochordons known as dermatolipoma acrochordons require a modified procedure and a specialized depedunculation formulation such as the following:

- a. complete medical history form and discuss procedure with the dermatolipoma acrochordon afflicted individual
- 30 b. measure and record skin pH

- c. conduct full body examination to locate all Type III acrochordons
- d. perform digital documentation at specified magnifications
- e. dehydrate dermatolipoma surface with heated air blower after de-greasing with acetone
- 5 f. apply 35 percent hydrogen peroxide
- g. re-apply 35 percent hydrogen peroxide if required for proper blanching
- h. allow 3 to 5 days for dermatolipoma detachment

Since special individual acrochordon and conditions may warrant changes and modifications of the present acrochordon removal and prevention invention and can be made
10 readily by those skilled in the art of acrochordon removal and prevention without departing from the basic concept of the present invention, the present invention for acrochordon removal and prevention shall not be limited except by the scope of the appended claims.

* * *

All of the treatments and/or methods disclosed and claimed herein can be made and
15 executed without undue experimentation in light of the present disclosure. While the treatments and methods of this invention have been described in terms of preferred embodiments, it will be apparent to those of skill in the art that variations may be applied to the treatments and/or methods and in the steps or in the sequence of steps of the method described herein without departing from the concept, spirit and scope of the invention. More specifically,
20 it will be apparent that certain acrochordon removal and prevention agents which are both chemically and physiologically related may be substituted for the agents described herein while the same or similar results would be achieved. All such similar substitutes and modifications apparent to those skilled in the art of acrochordon removal and prevention are deemed to be within the spirit, scope and concept of the invention as defined by the appended claims.

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The following references, to the extent that they provide exemplary procedural or other details supplementary to those set forth herein, are specifically incorporated herein by reference:

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CLAIMS

1. Use of hydrogen peroxide in a concentration of at least 23 percent for the preparation of a composition for the treatment of skin conditions on afflicted person or domesticated animal.
5
2. The use of claim 1, wherein the skin conditions comprises, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.
10
3. The use of claims 1-2, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
- 15 4. The use of claims 1-3, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
5. The use of claims 1-4, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
20
6. The use of claims 1-5, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
7. The use of claims 1-6, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
25
8. The use of claims 1-7, wherein the composition further comprises at least one vitamin.
- 30 9. The use of claim 8, wherein the vitamin is selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin.

10. The use of claim 9, wherein the vitamin is L-ascorbic acid.
11. The use of claims 1-10, wherein the composition further comprises at least one amino acid.
- 5 12. The use of claim 11, wherein the amino acid is selected from the group consisting of tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonin, cysteine, cystine, methionine, asparagine, glutamin, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine and carnosine.
- 10 13. The use of claim 12, wherein the amino acid is L-carnitine.
14. The use of claims 1-13, wherein the composition further comprises at least one melanin inhibitor.
- 15 15. The use of claim 14, wherein the melanin inhibitor is selected from the group consisting of hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma-L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid, glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricafeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethicin methacin, erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, chitosan, superoxide dismutase, melanostatin, S-lactoyl glutathione, and hydroquinone glycoside.
- 25 16. The use of claims 14-15, wherein the melanin inhibitor is kojic acid.
- 30 17. The use of claims 1-16, wherein the composition further comprises at least one organic acid.

18. The use of claim 17, wherein the organic acid is selected from the group consisting of lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid, tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid, arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid and hexahydroxyheptanoic acid.
19. The use of claim 18, wherein the organic acid is L-lactic acid.
20. The use of claims 1-19, wherein the composition further comprises at least one hormone.
21. The use of claim 20, wherein the hormone is selected from the group consisting of dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone and human growth hormone.
22. The use of claims 1-21, wherein the composition further comprises at least one sulfoxide.
23. The use of claim 22, wherein the sulfoxide is selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide.
24. The use of claim 23, wherein the sulfoxide is dimethylsulfoxide.
25. The use of claims 1-24, wherein the composition further comprises at least one alcohol.

26. The use of claim 25, wherein the alcohol is selected from the group consisting of ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-butanol, 2-pentanol and benzyl alcohol.
- 5 27. The use of claim 26, wherein the alcohol is ethanol.
28. The use of claims 1-27, wherein the composition comprises at least one fatty acid.
- 10 29. The use of claim 28, wherein the fatty acid is selected from the group consisting of valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric acid, lauric acid, myristic acid, stearic acid, oleic acid and caprylic acid.
30. The use of claim 29, wherein the fatty acid is myristic acid.
- 15 31. The use of claims 1-30, wherein the composition further comprises at least one fatty acid ester.
- 20 32. The use of claim 31, wherein the fatty acid ester is selected from the group consisting of isopropyl myristate, isopropyl palmitate, octyldodecyl myristate, ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate, diethyl sebacate and ethyl oleate.
33. The use of claim 32, wherein said fatty acid ester is isopropyl palmitate.
- 25 34. The use of claims 1-33, wherein the composition is applied by brush, dropper, atomizer, injector, sprayer or pipette.
35. The use of claims 1-34, wherein the composition further comprises at least one polyol.

36. The use of claim 35, wherein the polyol is selected from the group consisting of propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol and glycerol.
- 5 37. The use of claims 35-36, wherein the polyol is propylene glycol.
38. The use of claims 1-37, wherein the composition further comprises at least one amide.
- 10 39. The use of claim 38, wherein the amide is selected from the group consisting of urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldecamide, hexamethylenelauramide, diethanolamine and triethanolamine.
- 15 40. The use of claim 39, wherein the amide is dimethylformamide.
41. The use of claims 1-40, wherein the composition further comprises at least one surfactant.
- 20 42. The use of claim 41, wherein the surfactant is selected from the group consisting of sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, 25 Poloxamer (231,182,184), Brij (30,93,96,99), Span (20,40,60,80), Myrj (45,51,52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin.
43. The use of claim 42, wherein the surfactant is lecithin.
- 30 44. The use of claims 1-43, wherein the composition further comprises at least one terpene.

45. The use of claim 44, wherein the terpene is selected from the group consisting of D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone, piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus.
46. The use of claims 44-45, wherein the terpene is cyclohexene oxide.
47. The use of claims 1-46, wherein the composition further comprises at least one alkanone.
48. The use of claim 47, wherein the alkanone is selected from the group consisting of *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane and *N*-hexadecane.
49. The use of claims 47-48, wherein the alkanone is *N*-octane.
50. The use of claims 1-49, wherein the composition further comprises aloe vera.
51. The use of claims 1-50, wherein the composition further comprises at least one gamma linolenic precursor.
52. The use of claim 51, wherein the gamma linolenic acid precursor is selected from the group consisting of borage oil, black currant oil and evening primrose oil.
53. The use of hydrogen peroxide in a concentration of at least 23 percent and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic precursor, for the preparation of a composition for the treatment of skin conditions on afflicted person or domesticated animal.

54. The use of claim 53, wherein the skin conditions comprises corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.
55. The use of claims 53-54, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
56. The use of claims 53-55, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
57. The use of claims 53-56, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
58. The use of claims 53-57, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
59. The use of claims 53-58, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
60. The use of claims 53-59, wherein the composition comprises kojic acid, dimethylsulfoxide, melatonin, L-ascobic acid and ethanol.
61. The use of claim 60, wherein the composition comprises 26 percent hydrogen peroxide, 2 percent kojic acid, 12 percent dimethylsulfoxide, .5 percent melatonin, 1 percent Lascobic acid and 15 percent ethanol.
62. The use of claims 53-61, wherein the composition comprises hydrogen peroxide, lactic acid, niacin, testosterone, licorice root extract and β -phenylpyruvic acid.

63. The use of claim 62, wherein the composition comprises 47 percent hydrogen peroxide, 14 percent lactic acid, 2 percent niacin, 2 percent testosterone, 1 percent licorice root extract and 0.5 percent β -phenylpyruvic acid.
- 5 64. The use of claims 53-63, wherein the composition comprises L-tyrosine, phenylalanine, tricafeoylquinic acid and ethanol.
65. The use of claim 64, wherein the composition comprises 23 percent hydrogen peroxide, 2 percent L-tyrosine, 2 percent phenylalanine, 1 percent
10 tricafeoylquinic acid and 18 percent ethanol.
66. The use of claims 53-65, wherein the composition comprises hydrogen peroxide, lactic acid, glycolic acid, salicylic acid, citric acid and ethanol.
- 15 67. The use of claim 66, wherein the composition comprises 23 percent hydrogen peroxide, 4 percent lactic acid, 4 percent glycolic acid, 4 percent salicylic acid, 4 percent citric acid and 20 percent ethanol.
68. The use of claims 53-67, wherein the composition comprises dimethylsulfoxide.
20
69. The use of claim 68, wherein the composition comprises 35 percent hydrogen peroxide and 35 percent dimethylsulfoxide.
70. The use of claims 53-69, wherein the composition comprises L-ascorbic acid,
25 niacin, glycine, hydroquinone, superoxide dismutase, galacturonic acid and ethanol.
71. The use of claim 70, wherein the composition comprises 35 percent hydrogen peroxide, 0.5 percent L-ascorbic acid, 0.5 percent niacin, 0.5 percent glycine, 0.5
30 percent hydroquinone, 0.5 percent superoxide dismutase, 5 percent galacturonic acid and 14 percent ethanol.

72. The use of claims 53-71, wherein the composition comprises decylmethylsulfoxide.
- 5 73. The use of claim 72, wherein the composition comprises 60 percent hydrogen peroxide and 6 percent decylmethylsulfoxide.
- 10 74. A method for the cosmetic removal of skin conditions comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent; and (b) applying said composition to the skin condition of an afflicted person or domesticated animal.
- 15 75. The method of claim 74, wherein the skin condition comprises removal of actinic keratoses, rosacea, onychomycosis, hyperpigmentation, rhytides, psoriasis and benign acrochordons.
76. The method of claims 74-75, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
- 20 77. The method of claims 74-76, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
78. The method of claims 74-77, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
- 25 79. The method of claims 74-78, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
80. The method of claims 74-79, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
- 30 81. The method of claims 74-80, wherein the composition further comprises at least one vitamin.

82. The method of claim 81, wherein the vitamin is selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin.
- 5 83. The method of claims 81-82, wherein the vitamin is L-ascorbic acid.
84. The method of claims 74-83, wherein the composition further comprises at least one amino acid.
- 10 85. The method of claim 84, wherein the amino acid is selected from the group consisting of tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonin, cysteine, cystine, methionine, asparagine, glutamin, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine and carnosine.
- 15 86. The method of claims 84-85, wherein the amino acid is L-carnitine.
87. The method of claims 74-86, wherein the composition further comprises at least one melanin inhibitor.
- 20 88. The method of claim 87, wherein the melanin inhibitor is selected from the group consisting of hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid, glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricafeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethicin methacin, erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, 25 chitosan, superoxide dismutase, melanostatin, S-lactoyl glutathione, and 30 hydroquinone glycoside.

89. The method of claims 87-88, wherein the melanin inhibitor is kojic acid.
90. The method of claims 74-89, wherein the composition further comprises at least one organic acid.
- 5
91. The method of claim 90, wherein the organic acid is selected from the group consisting of lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid, tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid, arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid and hexahydroxyheptanoic acid.
- 10
- 15
92. The method of claim 90, wherein the organic acid is L-lactic acid.
- 20
93. The method of claims 74-92, wherein the composition further comprises at least one hormone.
94. The method of claim 93, wherein the hormone is selected from the group consisting of dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone and human growth hormone.
- 25
95. The method of claim 74-94, wherein the composition further comprises at least one sulfoxide.
- 30
96. The method of claim 95, wherein the sulfoxide is selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide.

97. The method of claim 96, wherein the sulfoxide is dimethylsulfoxide.
98. The method of claims 74-97, wherein the composition further comprises at least
5 one alcohol.
99. The method of claim 98, wherein the alcohol is selected from the group consisting
of ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-
butanol, 2-pentanol and benzyl alcohol.
100. The method of claim 99, wherein the alcohol is ethanol.
101. The method of claims 74-100, wherein the composition comprises at least one
fatty acid.
102. The method of claim 101, wherein the fatty acid is selected from the group
consisting of valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric
acid, lauric acid, myristic acid, stearic acid, oleic acid and caprylic acid.
103. The method of claim 102, wherein the fatty acid is myristic acid.
104. The method of claims 74-103, wherein the composition further comprises at least
one fatty acid ester.
105. The method of claim 104, wherein the fatty acid ester is selected from the group
consisting of isopropyl myristate, isopropyl palmitate, octyldodecyl myristate,
ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate,
diethyl sebacate and ethyl oleate.
106. The method of claim 105, wherein said fatty acid ester is isopropyl palmitate.

107. The method of claims 74-106, wherein the applying step is by brush, dropper, atomizer, injector, sprayer or pipette.
108. The method of claims 74-107, wherein the composition further comprises at least one polyol.
109. The method of claim 108, wherein the polyol is selected from the group consisting of propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol and glycerol.
110. The method of claims 108-109, wherein the polyol is propylene glycol.
111. The method of claims 74-110, wherein the composition further comprises at least one amide.
112. The method of claim 111, wherein the amide is selected from the group consisting of urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldecamide, hexamethylenelauramide, diethanolamine and triethanolamine.
113. The method of claim 112, wherein the amide is dimethylformamide.
114. The method of claims 74-113, wherein the composition further comprises at least one surfactant.
115. The method of claim 114, wherein the surfactant may be selected from the group consisting of sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, Poloxamer (231,182,184), Brij (30,93,96,99), Span (20,40,60,80), Myrj

(45,51,52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin.

116. The method of claim 115, wherein the surfactant is lecithin.

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117. The method of claims 74-116, wherein the composition further comprises at least one terpene.

118. The method of claim 117, wherein the terpene is selected from the group
10 consisting of D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone, piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus.

15 119. The method of claims 117-118, wherein the terpene is cyclohexene oxide.

120. The method of claims 74-119, wherein the composition further comprises at least one alkanone.

20 121. The method of claim 120, wherein the alkanone is selected from the group consisting of *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane and *N*-hexadecane.

122. The method of claims 120-121, wherein the alkanone is *N*-octane.

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123. The method of claims 74-122, wherein the composition further comprises aloe vera.

30 124. The method of claims 74-123, wherein the composition further comprises at least one gamma linolenic precursor.

125. The method of claim 124, wherein the gamma linolenic acid precursor may be selected from the group consisting of borage oil, black currant oil and evening primrose oil.
- 5 126. A method for the cosmetic removal of skin conditions comprising: (a) obtaining a composition comprising hydrogen peroxide in a concentration of at least 23 percent and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic precursor; and (b) applying said composition to the skin condition of an afflicted person or domesticated animal.
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127. The method of claim 126, wherein the skin conditions comprises removal of actinic keratoses, rosacea, onychomycosis, hyperpigmentation, rhytides, psoriasis and benign acrochordons.
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128. The method of claim 126-127, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
- 20 129. The method of claim 126-128, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
130. The method of claims 126-129, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
- 25 131. The method of claims 126-130, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
132. The method of claims 126-131, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
- 30

133. The method of claims 126-132, wherein the composition comprises kojic acid, dimethylsulfoxide, melatonin, L-ascobic acid and ethanol.
- 5 134. The method of claim 133, wherein the composition comprises 26 percent hydrogen peroxide, 2 percent kojic acid, 12 percent dimethylsulfoxide, 0.5 percent melatonin, 1 percent L-ascobic acid and 15 percent ethanol.
- 10 135. The method of claims 126-134, wherein the composition comprises hydrogen peroxide, lactic acid, niacin, testosterone, licorice root extract and β -phenylpyruvic acid.
136. The method of claim 135, wherein the composition comprises 47 percent hydrogen peroxide, 14 percent lactic acid, 2 percent niacin, 2 percent testosterone, 1 percent licorice root extract and 0.5 percent β -phenylpyruvic acid.
- 15 137. The method of claims 126-136, wherein the composition comprises L-tyrosine, phenylalanine, tricafeoylquinic acid and ethanol.
- 20 138. The method of claim 137, wherein the composition comprises 23 percent hydrogen peroxide, 2 percent L-tyrosine, 2 percent phenylalanine, 1 percent tricafeoylquinic acid and 18 percent ethanol.
- 25 139. The method of claims 126-138, wherein the composition comprises hydrogen peroxide, lactic acid, glycolic acid, salicylic acid, citric acid and ethanol.
140. The method of claim 139, wherein the composition comprises 23 percent hydrogen peroxide, 4 percent lactic acid, 4 percent glycolic acid, 4 percent salicylic acid, 4 percent citric acid and 20 percent ethanol.
- 30 141. The method of claims 126-140, wherein the composition comprises dimethylsulfoxide.

142. The method of claim 141, wherein the composition comprises 35 percent hydrogen peroxide and 35 percent dimethylsulfoxide.
- 5 143. The method of claims 126-142, wherein the composition comprises L-ascorbic acid, niacin, glycine, hydroquinone, superoxide dismutase, galacturonic acid and ethanol.
- 10 144. The method of claim 143, wherein the composition comprises 35 percent hydrogen peroxide, 0.5 percent L-ascorbic acid, 0.5 percent niacin, 0.5 percent glycine, 0.5 percent hydroquinone, 0.5 percent superoxide dismutase, 5 percent galacturonic acid and 14 percent ethanol.
- 15 145. The method of claims 126-144, wherein the composition comprises decylmethylsulfoxide.
146. The method of claim 145, wherein the composition comprises 60 percent hydrogen peroxide and 6 percent decylmethylsulfoxide.
- 20 147. A composition comprising at least 23 percent of hydrogen peroxide for use in medicine.
148. The composition of claim 147, wherein the composition is used for the treatment of skin conditions on afflicted person or domesticated animal.
- 25 149. The composition of claims 147-148, wherein the skin conditions comprises, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basil cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.
- 30 150. The composition of claims 147-149, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.

151. The composition of claims 147-150, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
- 5 152. The composition of claims 147-151, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
153. The composition of claims 147-152, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
- 10 154. The composition of claims 147-153, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
155. The composition of claims 147-154, wherein the composition further comprises at least one vitamin.
- 15 156. The composition of claim 155, wherein the vitamin is selected from the group consisting of ascorbic acid, niacin, thiamin and riboflavin.
157. The composition of claim 156, wherein the vitamin is L-ascorbic acid.
- 20 158. The composition of claims 147-157, wherein the composition further comprises at least one amino acid.
159. The composition of claim 158, wherein the amino acid is selected from the group
25 consisting of tyrosine, phenylalanine, carnitine, arginine, glycine, alanine, valine, leucine, isoleucine, serine, threonine, cysteine, cystine, methionine, asparagine, glutamine, lysine, 5-hydroxylysine, histidine, tryptophan, proline, ornithine and carnosine.
- 30 160. The composition of claim 159, wherein the amino acid is L-carnitine.

161. The composition of claims 147-160, wherein the composition further comprises at least one melanin inhibitor.
162. The composition of claim 161, wherein the melanin inhibitor is selected from the group consisting of hydroquinone, niacinimide, cinnamic acid, gamma-L-glutamyl-L-cystine, gamma-L-cysteine, oxidized glutathione, phenol, polyphenol, linoleic acid, ellagic acid, glycyrrhizic acid, alkylsalicylic acid, kojic acid, kojic acid glycosides, kojic acid succinimide ester, kojic acid dimer, thiazoles, propionic acid, sulphur, kudzu root, lavanol, caffeic acid, dicaffeoylquinic acid, tricafeoylquinic acid, vitamin K, hydantoin, tranexamic acid, chromone derivative, indomethacin methacin, erthorbic acid, glucoside, conchiolin hydrolyzate, licorice root extract, logwood extract, gromwell seed extract, arbutin, chitosan, superoxide dismutase, melanostatin, S-lactoyl glutathione, and hydroquinone glycoside.
163. The composition of claims 161-162, wherein the melanin inhibitor is kojic acid.
164. The composition of claims 147-163, wherein the composition further comprises at least one organic acid.
165. The composition of claim 164, wherein the organic acid is selected from the group consisting of lactic acid, citric acid, isocitric acid, glycolic acid, malic acid, tartronic acid, tartaric acid, glucuronic acid, pyruvic acid, acetyl pyruvic acid, β -fluoropyruvic acid, 2-hydroxy isobutyric acid, galacturonic acid, salicylic acid, succinic acid, mandelic acid, β -phenyllactic acid, saccharic acid, β -phenylpyruvic acid, α -hydroxybutyric acid, α -hydroxyisobutyric acid, mucic acid, atrolactic acid, glucoheptonic acid, gluconic acid, glyceric acid, quinic acid, glyceruric acid, threuric acid, erythreuric acid, xyluric acid, lyxuric acid, arabinuric acid, riburic acid, iduric acid, guluric acid, mannuric acid, altruric acid, alluric acid, taluric acid, xylaric acid, lyxaric acid, trihydroxybutanoic acid, pentahydroxyhexanoic acid and hexahydroxyheptanoic acid.

166. The composition of claim 165, wherein the organic acid is L-lactic acid.

167. The composition of claims 147-166, wherein the composition further comprises at least one hormone.

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168. The composition of claim 167, wherein the hormone is selected from the group consisting of dehydroepiandrosterone, progesterone, estrogen, melatonin, testosterone, pregnenolone, thyroid hormone, thymus hormone and human growth hormone.

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169. The composition of claims 147-168, wherein the composition further comprises at least one sulfoxide.

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170. The composition of claim 169, wherein the sulfoxide is selected from the group consisting of dimethylsulfoxide and decylmethylsulfoxide.

171. The composition of claim 170, wherein the sulfoxide is dimethylsulfoxide.

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172. The composition of claims 147-171, wherein the composition further comprises at least one alcohol.

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173. The composition of claim 172, wherein the alcohol is selected from the group consisting of ethanol, propanol, butanol, pentanol, hexanol, octanol, nonanol, decanol, 2-butanol, 2-pentanol and benzyl alcohol.

174. The composition of claim 173, wherein the alcohol is ethanol.

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175. The composition of claims 147-174, wherein the composition comprises at least one fatty acid.

176. The composition of claim 175, wherein the fatty acid is selected from the group consisting of valeric acid, heptanoic acid, pelagonic acid, caproic acid, capric acid, lauric acid, myristic acid, stearic acid, oleic acid and caprylic acid.
- 5 177. The composition of claim 176, wherein the fatty acid is myristic acid.
178. The composition of claims 147-177, wherein the composition further comprises at least one fatty acid ester.
- 10 179. The composition of claim 178, wherein the fatty acid ester is selected from the group consisting of isopropyl myristate, isopropyl palmitate, octyldodecyl myristate, ethyl acetate, butyl acetate, methyl acetate, methylvalerate, methylpropionate, diethyl sebacate and ethyl oleate.
- 15 180. The composition of claim 179, wherein said fatty acid ester is isopropyl palmitate.
181. The composition of claims 147-180, wherein the composition is applied by brush, dropper, atomizer, injector, sprayer or pipette.
- 20 182. The composition of claims 147-181, wherein the composition further comprises at least one polyol.
183. The composition of claim 182, wherein the polyol is selected from the group consisting of propylene glycol, polyethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, dipropylene glycol and glycerol.
- 25 184. The composition of claims 182-183, wherein the polyol is propylene glycol.
185. The composition of claims 147-184, wherein the composition further comprises at least one amide.
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186. The composition of claim 185, wherein the amide is selected from the group consisting of urea, dimethylacetamide, diethyltoluamide, dimethylformamide, dimethyloctamide, dimethyldecamide, hexamethylenelauramide, diethanolamine and triethanolamine.
- 5 187. The composition of claim 186, wherein the amide is dimethylformamide.
188. The composition of claims 147-187, wherein the composition further comprises at least one surfactant.
- 10 189. The composition of claim 188, wherein the surfactant is selected from the group consisting of sodium laurate, sodium lauryl sulphate, cetyltrimethyl ammonium bromide, tetradecyltrimethylammonium bromide, benzalkonium chloride, octadecyltrimethylammonium chloride, cetylpyridinium chloride, dodecyltrimethylammonium chloride, hexadecyltrimethylammonium chloride, Poloxamer (231,182,184), Brij (30,93,96,99), Span (20,40,60,80), Myrj (45,51,52), Miglyol 840, sodium cholate, sodium salts of taurocholic, glycholic, desoxycholic acids and lecithin.
- 15 190. The composition of claim 189, wherein the surfactant is lecithin.
191. The composition of claims 147-190, wherein the composition further comprises at least one terpene.
- 20 192. The composition of claim 191, wherein the terpene is selected from the group consisting of D-limonene, α -pinene, β -carene, α -terpineol, terpinen-4-ol, carvol, carvone, pulegone, piperitone, menthone, cyclohexene oxide, limonene oxide, α -pinene oxide, cyclopentene oxide, 1,8-cineole, ylang ylang, anise, chenopodium and eucalyptus.
- 25 193. The composition of claims 191-192, wherein the terpene is cyclohexene oxide.
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194. The composition of claims 147-193, wherein the composition further comprises at least one alkanone.
195. The composition of claim 194, wherein the alkanone is selected from the group consisting of *N*-heptane, *N*-octane, *N*-nonane, *N*-decane, *N*-undecane, *N*-dodecane, *N*-tridecane, *N*-tetradecane and *N*-hexadecane.
196. The composition of claims 194-195, wherein the alkanone is *N*-octane.
197. The composition of claims 147-196, wherein the composition further comprises aloe vera.
198. The composition of claims 147-197, wherein the composition further comprises at least one gamma linolenic precursor.
199. The composition of claim 198, wherein the gamma linolenic acid precursor may be selected from the group consisting of borage oil, black currant oil and evening primrose oil.
200. A composition comprising at least 23 percent hydrogen peroxide and at least one compound selected from a vitamin, an amino acid, a melanin inhibitor, an organic acid, a hormone, a sulfoxide, an alcohol, a fatty acid, a fatty acid ester, a polyol, an amide, a surfactant, a terpene, an alkanone, aloe vera and a gamma linolenic precursor for use in medicine.
201. The composition of claim 200, wherein the composition is used for the treatment of skin conditions on afflicted person or domesticated animal.
202. The composition of claims 200-201, wherein the skin conditions comprises acrochordons, corns, warts, actinic keratoses, seborrheic keratoses, herpes, acne, rosacea, basal cell carcinoma, squamous cell carcinoma, onychomycosis, hyperpigmentation, rhytides, psoriasis and melanoma.

203. The composition of claims 200-202, wherein the concentration of hydrogen peroxide is from about 23 percent to about 60 percent.
- 5 204. The composition of claims 200-203, wherein the concentration of hydrogen peroxide is from about 35 percent to about 60 percent.
205. The composition of claims 200-204, wherein the concentration of hydrogen peroxide is from about 35 percent to about 40 percent.
- 10 206. The composition of claims 200-205, wherein the concentration of hydrogen peroxide is from about 40 percent to about 50 percent.
207. The composition of claims 200-206, wherein the concentration of hydrogen peroxide is from about 43 percent to about 48 percent.
- 15 208. The composition of claims 200-207, wherein the composition comprises kojic acid, dimethylsulfoxide, melatonin, L-ascobic acid and ethanol.
- 20 209. The composition of claim 208, wherein the composition comprises 26 percent hydrogen peroxide, 2 percent kojic acid, 12 percent dimethylsulfoxide, .5 percent melatonin, 1 percent Lascobic acid and 15 percent ethanol.
- 25 210. The composition of claims 200-209, wherein the composition comprises hydrogen peroxide, lactic acid, niacin, testosterone, licorice root extract and β -phenylpyruvic acid.
- 30 211. The composition of claim 210, wherein the composition comprises 47 percent hydrogen peroxide, 14 percent lactic acid, 2 percent niacin, 2 percent testosterone, 1 percent licorice root extract and 0.5 percent β -phenylpyruvic acid.

212. The composition of claims 200-211, wherein the composition comprises L-tyrosine, phenylalanine, tricaffeoylquinic acid and ethanol.
- 5 213. The composition of claim 212, wherein the composition comprises 23 percent hydrogen peroxide, 2 percent L-tyrosine, 2 percent phenylalanine, 1 percent tricaffeoylquinic acid and 18 percent ethanol.
214. The composition of claims 200-213, wherein the composition comprises hydrogen peroxide, lactic acid, glycolic acid, salicylic acid, citric acid and ethanol.
- 10 215. The composition of claim 214, wherein the composition comprises 23 percent hydrogen peroxide, 4 percent lactic acid, 4 percent glycolic acid, 4 percent salicylic acid, 4 percent citric acid and 20 percent ethanol.
- 15 216. The composition of claims 200-215, wherein the composition comprises dimethylsulfoxide.
217. The composition of claim 216, wherein the composition comprises 35 percent hydrogen peroxide and 35 percent dimethylsulfoxide.
- 20 218. The composition of claims 200-217, wherein the composition comprises L-ascorbic acid, niacin, glycine, hydroquinone, superoxide dismutase, galacturonic acid and ethanol.
- 25 219. The composition of claim 218, wherein the composition comprises 35 percent hydrogen peroxide, 0.5 percent L-ascorbic acid, 0.5 percent niacin, 0.5 percent glycine, 0.5 percent hydroquinone, 0.5 percent superoxide dismutase, 5 percent galacturonic acid and 14 percent ethanol.
- 30 220. The composition of claims 200-219, wherein the composition comprises decylmethylsulfoxide.

221. The composition of claims 220, wherein the composition comprises 60 percent hydrogen peroxide and 6 percent decylmethysulfoxide.