

Literature Review

Skin – Warts Topical
Treatments

Medication	Title of Article	Pubmed Link
5-FLUOROURACIL	Intralesional 5-fluorouracil, lidocaine and epinephrine mixture for the treatment of verrucae: a prospective placebo-controlled, single-blind randomized study.	http://www.ncbi.nlm.nih.gov/pubmed/15196161
5-FLUOROURACIL	Treatment of warts with topical pyruvic acid: with and without added 5-fluorouracil.	http://www.ncbi.nlm.nih.gov/pubmed/9878984
5-FLUOROURACIL	5% 5-Fluorouracil cream for treatment of verruca vulgaris in children.	http://www.ncbi.nlm.nih.gov/pubmed/19706088
5-FLUOROURACIL	Topical treatments for cutaneous warts.	http://www.ncbi.nlm.nih.gov/pubmed/22972052
5-FLUOROURACIL	Treatment of common warts with an intralesional mixture of 5-fluorouracil, lidocaine, and epinephrine: a prospective placebo-controlled, double-blind randomized trial.	http://www.ncbi.nlm.nih.gov/pubmed/18261100
5-FLUOROURACIL	Topical 5% 5-fluorouracil cream in the treatment of plantar warts: a prospective, randomized, and controlled clinical study.	http://www.ncbi.nlm.nih.gov/pubmed/16703777
5-FLUOROURACIL	Topical 5-fluorouracil has no additional benefit in treating common warts with cryotherapy: a single-centre, double-blind, randomized, placebo-controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/16681586
5-FLUOROURACIL	Therapeutic evaluation of intralesional 5% 5-fluorouracil in condyloma acuminata.	http://www.ncbi.nlm.nih.gov/pubmed/15187327
5-FLUOROURACIL	Management of intravaginal warts in women with 5-fluorouracil (1%) in vaginal hydrophilic gel: a placebo-controlled double-blind study.	http://www.ncbi.nlm.nih.gov/pubmed/10872909
5-FLUOROURACIL	Relationship of genital wart burden to therapeutic response to fluorouracil/epinephrine injectable gel.	http://www.ncbi.nlm.nih.gov/pubmed/9310224
5-FLUOROURACIL	Treatment of extensive vulvar condylomata acuminata with topical 5-fluorouracil.	http://www.ncbi.nlm.nih.gov/pubmed/2371597
5-FLUOROURACIL	[Adjuvant 5-fluorouracil lacquer administration for reducing the rate of recurrence of condylomata acuminata following laser surgery treatment].	http://www.ncbi.nlm.nih.gov/pubmed/2741263
5-FLUOROURACIL	Treatment of warts with topical pyruvic acid: with and without added 5-fluorouracil.	http://www.ncbi.nlm.nih.gov/pubmed/9878984
5-FLUOROURACIL	A comparison of a 5% potassium hydroxide solution with a 5-fluorouracil and salicylic acid combination in the treatment of patients with anogenital warts: a randomized, open-label clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/25039244

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ALPHA-LACTALBUMIN-OLEIC ACID	Treatment of skin papillomas with topical alpha-lactalbumin-oleic acid.	http://www.ncbi.nlm.nih.gov/pubmed/15215482
ALPHA-LACTALBUMIN-OLEIC ACID	Treatment of warts.	http://www.ncbi.nlm.nih.gov/pubmed/15483294
AMINOLEVULINIC ACID	Photodynamic therapy with 20% aminolevulinic acid for the treatment of recalcitrant viral warts in an Asian population.	http://www.ncbi.nlm.nih.gov/pubmed/17988339
AMINOLEVULINIC ACID	Pretreatment of plantar warts with azone enhances the effect of 5-aminolevulinic acid photodynamic therapy.	http://www.ncbi.nlm.nih.gov/pubmed/16566731
AMINOLEVULINIC ACID	Comparative study of aminolevulinic acid photodynamic therapy plus pulsed dye laser versus pulsed dye laser alone in treatment of viral warts.	http://www.ncbi.nlm.nih.gov/pubmed/15910187
AMINOLEVULINIC ACID	Photodynamic therapy with 5-aminolaevulinic acid or placebo for recalcitrant foot and hand warts: randomised double-blind trial.	http://www.ncbi.nlm.nih.gov/pubmed/10768434
AMINOLEVULINIC ACID	Recalcitrant hand and foot warts successfully treated with photodynamic therapy with topical 5-aminolaevulinic acid: a pilot study.	http://www.ncbi.nlm.nih.gov/pubmed/10354167
AMINOLEVULINIC ACID	Photodynamic therapy with topical delta-aminolaevulinic acid for the treatment of plantar warts.	http://www.ncbi.nlm.nih.gov/pubmed/11485845
BLEOMYCIN	Intralesional pingyangmycin treatment for resistant plantar warts.	http://www.ncbi.nlm.nih.gov/pubmed/20051659
BLEOMYCIN	Intralesional bleomycin in the treatment of cutaneous warts: a randomized clinical trial comparing it with cryotherapy.	http://www.ncbi.nlm.nih.gov/pubmed/19439878
BLEOMYCIN	Compared therapeutic efficacy between intralesional bleomycin and cryotherapy for common warts: a randomized clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/18328198
BLEOMYCIN	Dermojet delivery of bleomycin for the treatment of recalcitrant plantar warts.	http://www.ncbi.nlm.nih.gov/pubmed/16766336
BLEOMYCIN	Intralesional bleomycin sulfate injection for the treatment of verruca plantaris.	http://www.ncbi.nlm.nih.gov/pubmed/16707633
BLEOMYCIN	Pulsed dye laser and intralesional bleomycin for treatment of resistant viol hand warts.	http://www.ncbi.nlm.nih.gov/pubmed/11870793
BLEOMYCIN	Dermatography with bleomycin as a new treatment for verrucae vulgaris.	http://www.ncbi.nlm.nih.gov/pubmed/9109018

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BLEOMYCIN	Intralesional injection of bleomycin sulphate into resistant warts in renal transplant recipients versus non-transplant warty patients.	http://www.ncbi.nlm.nih.gov/pubmed/1711753
BLEOMYCIN	Therapeutic evaluation for intralesional injection of bleomycin sulfate in 143 resistant warts.	http://www.ncbi.nlm.nih.gov/pubmed/2454980
BLEOMYCIN	Reduced dose of bleomycin in the treatment of recalcitrant warts.	http://www.ncbi.nlm.nih.gov/pubmed/2431013
BLEOMYCIN	Treatment of viral warts with pressure-sensitive adhesive tape containing bleomycin sulfate.	http://www.ncbi.nlm.nih.gov/pubmed/2412498
DINITROCHLOROBENZENE	Efficacy of human lymphoblastoid interferon in the therapy of resistant condyloma acuminata.	http://www.ncbi.nlm.nih.gov/pubmed/3008054
DINITROCHLOROBENZENE	Unilateral dinitrochlorobenzene immunopathy of recalcitrant warts.	http://www.ncbi.nlm.nih.gov/pubmed/75477
DINITROCHLOROBENZENE	Treatment of disseminated facial warts through contact immunotherapy with diphenylcyclopropenone (DPCP).	http://www.ncbi.nlm.nih.gov/pubmed/16638403
FORMIC ACID	A double-blind, randomized trial of local formic acid puncture technique in the treatment of common warts.	http://www.ncbi.nlm.nih.gov/pubmed/20527136
FORMIC ACID	Topical formic acid puncture technique for the treatment of common warts.	http://www.ncbi.nlm.nih.gov/pubmed/11589750
IMIQUIMOD	Pharmacokinetics of daily self-application of imiquimod 3.75% cream in adult patients with external anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/22232733
IMIQUIMOD	Randomized clinical trial of imiquimod: an adjunct to treating cervical dysplasia.	http://www.ncbi.nlm.nih.gov/pubmed/21907959
IMIQUIMOD	Imiquimod 3.75% cream applied daily to treat anogenital warts: combined results from women in two randomized, placebo-controlled studies.	http://www.ncbi.nlm.nih.gov/pubmed/21876641
IMIQUIMOD	Efficacy and safety of imiquimod versus podophyllotoxin in the treatment of anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/20938374
IMIQUIMOD	Imiquimod 5% cream for external genital or perianal warts in human immunodeficiency virus-positive patients treated with highly active antiretroviral therapy: an open-label, noncomparative study.	http://www.ncbi.nlm.nih.gov/pubmed/19466962
IMIQUIMOD	Comparison of cryotherapy to imiquimod 5% in the treatment of anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/18574113

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IMIQUIMOD	Earlier eradication of intra-anal warts with argon plasma coagulator combined with imiquimod cream compared with argon plasma coagulator alone: a prospective, randomized trial.	http://www.ncbi.nlm.nih.gov/pubmed/17914655
IMIQUIMOD	Human papillomavirus-type predict the clinical outcome of imiquimod therapy for women with vulvar condylomata acuminata.	http://www.ncbi.nlm.nih.gov/pubmed/17653883
IMIQUIMOD	Effect of imiquimod in anogenital warts from HIV-positive men.	http://www.ncbi.nlm.nih.gov/pubmed/17513167
IMIQUIMOD	Randomized, comparative trial on the sustained efficacy of topical imiquimod 5% cream versus conventional ablative methods in external anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/17229604
IMIQUIMOD	Treatment of flat warts with 5% imiquimod cream.	http://www.ncbi.nlm.nih.gov/pubmed/17062069
IMIQUIMOD	An open-label phase II pilot study investigating the optimal duration of imiquimod 5% cream for the treatment of external genital warts in women.	http://www.ncbi.nlm.nih.gov/pubmed/16820073
IMIQUIMOD	[Efficacy and safety of 5% imiquimod cream in external genital warts: a 6 month follow-up evaluation].	http://www.ncbi.nlm.nih.gov/pubmed/16327713
IMIQUIMOD	Evaluation of imiquimod 5% cream to modify the natural history of herpes labialis: a pilot study.	http://www.ncbi.nlm.nih.gov/pubmed/16107978
IMIQUIMOD	Safety and efficacy of 5% imiquimod cream for the treatment of skin dysplasia in high-risk renal transplant recipients: randomized, double-blind, placebo-controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/16103328
IMIQUIMOD	Topical imiquimod 5% cream in external anogenital warts: a randomized, double-blind, placebo-controlled study.	http://www.ncbi.nlm.nih.gov/pubmed/15492435
IMIQUIMOD	An open label evaluation of the efficacy of imiquimod 5% cream in the treatment of recalcitrant subungual and periungual cutaneous warts.	http://www.ncbi.nlm.nih.gov/pubmed/14660271
IMIQUIMOD	Safety and efficacy of locally applied imiquimod cream 5% for the treatment of condylomata acuminata of the vulva.	http://www.ncbi.nlm.nih.gov/pubmed/14648072
IMIQUIMOD	Topical imiquimod 5% cream as an effective treatment for external genital and perianal warts in different patient populations.	http://www.ncbi.nlm.nih.gov/pubmed/12567169
LIPID GARLIC EXTRACT	Evaluation of TNF- α serum level in patients with recalcitrant multiple common warts, treated by lipid garlic extract.	http://www.ncbi.nlm.nih.gov/pubmed/24910383
MELALEUCA ALTERNIFOLIA	Successful topical treatment of hand warts in a paediatric patient with tea tree oil (<i>Melaleuca alternifolia</i>).	http://www.ncbi.nlm.nih.gov/pubmed/18940708

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ORAL SUPPLEMENTATION	Oral supplementation with a nutraceutical containing Echinacea, methionine and antioxidant/immunostimulating compounds in patients with cutaneous viral warts.	http://www.ncbi.nlm.nih.gov/pubmed/21566549
ORAL SUPPLEMENTATION	Complementary treatment with oral pidotimod plus vitamin C after laser vaporization for female genital warts: a prospective study.	http://www.ncbi.nlm.nih.gov/pubmed/20945819
ORAL SUPPLEMENTATION	Propolis as an alternative treatment for cutaneous warts.	http://www.ncbi.nlm.nih.gov/pubmed/20064186
ORAL SUPPLEMENTATION	Cimetidine therapy for multiple warts in children	http://www.ncbi.nlm.nih.gov/pubmed/12416358
ORAL SUPPLEMENTATION	Treatment of viral warts with cimetidine: an open-label study.	http://www.ncbi.nlm.nih.gov/pubmed/10844489
PHENOL (80%)	Efficacy of 80% phenol solution in comparison with cryotherapy in the treatment of common warts of hands.	http://www.ncbi.nlm.nih.gov/pubmed/19122958
POLIHEXANIDE	Clinical use of the antiseptic polihexanide for genital tract infections.	http://www.ncbi.nlm.nih.gov/pubmed/22907313
POLYHEXAMETHYLENE BIGUANIDE	Polyhexamethylene biguanide for treatment of external genital warts: a prospective, double-blind, randomized study.	http://www.ncbi.nlm.nih.gov/pubmed/16479742
POLYPHENON E	Polyphenon E: a new treatment for external anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/19709100
POLYPHENON E	Topical Polyphenon E in the treatment of external genital and perianal warts: a randomized controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/18363746
POLYPHENON E	Polyphenon E. A new topical therapy for condylomata acuminata	http://www.ncbi.nlm.nih.gov/pubmed/18209999
POLYPHENON E	A randomized, double-blind, four-arm parallel-group, placebo-controlled Phase II/III study to investigate the clinical efficacy of two galenic formulations of Polyphenon E in the treatment of external genital warts.	http://www.ncbi.nlm.nih.gov/pubmed/17958849
POLYPHENON E	Polyphenon E 10% ointment: in immunocompetent adults with external genital and perianal warts.	http://www.ncbi.nlm.nih.gov/pubmed/22667336
POLYPHENON E	Polyphenon E: a new treatment for external anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/19709100

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POTASSIUM HYDROXIDE	A prospective, open, comparative study of 5% potassium hydroxide solution versus cryotherapy in the treatment of genital warts in men.	http://www.ncbi.nlm.nih.gov/pubmed/24770498
SALICYLIC ACID	A comparison of a 5% potassium hydroxide solution with a 5-fluorouracil and salicylic acid combination in the treatment of patients with anogenital warts: a randomized, open-label clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/25039244
SALICYLIC ACID	Glycolic acid 15% plus salicylic acid 2%: a new therapeutic pearl for facial flat warts	http://www.ncbi.nlm.nih.gov/pubmed/21938272
SALICYLIC ACID	EVerT: cryotherapy versus salicylic acid for the treatment of verrucae -a randomised controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/21899812
SALICYLIC ACID	Cantharidin-podophylotoxin-salicylic acid versus cryotherapy in the treatment of plantar warts: a randomized prospective study.	http://www.ncbi.nlm.nih.gov/pubmed/21790794
SALICYLIC ACID	Cryotherapy versus salicylic acid for the treatment of plantar warts (verrucae): a randomised controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/21652750
SALICYLIC ACID	Efficacy of topical treatments for cutaneous warts: a meta-analysis and pooled analysis of randomized controlled trials.	http://www.ncbi.nlm.nih.gov/pubmed/21219294
SALICYLIC ACID	Cryotherapy with liquid nitrogen versus topical salicylic acid application for cutaneous warts in primary care: randomized controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/20837684
SALICYLIC ACID	Application of cantharidin and podophyllotoxin for the treatment of plantar warts.	http://www.ncbi.nlm.nih.gov/pubmed/19017852
SALICYLIC ACID	Treatment of palmoplantar warts with a diphencyprone and salicylic acid ointment.	http://www.ncbi.nlm.nih.gov/pubmed/16866999
SALICYLIC ACID	Treatment of verruca plantaris with a combination of topical fluorouracil and salicylic acid	http://www.ncbi.nlm.nih.gov/pubmed/16037552
SALICYLIC ACID	Plantar wart treatment with combination imiquimod and salicylic acid pads.	http://www.ncbi.nlm.nih.gov/pubmed/12905977
SALICYLIC ACID	Treatment of common warts with high-potency (26%) salicylic acid.	http://www.ncbi.nlm.nih.gov/pubmed/3274251
SALICYLIC ACID	Safety in use of cryotherapy and topical salicylic acid with lactic acid combination in treating verruca vulgaris	http://www.ncbi.nlm.nih.gov/pubmed/23134923

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SALICYLIC ACID	Cost-effectiveness of cryotherapy versus salicylic acid for the treatment of plantar warts: economic evaluation alongside a randomised controlled trial (EVerT trial).	http://www.ncbi.nlm.nih.gov/pubmed/22369511
SALICYLIC ACID	Efficacy of topical treatments for cutaneous warts: a meta-analysis and pooled analysis of randomized controlled trials.	http://www.ncbi.nlm.nih.gov/pubmed/21219294
SALICYLIC ACID	The EVERT (effective verruca treatments) trial protocol: a randomised controlled trial to evaluate cryotherapy versus salicylic acid for the treatment of verrucae	http://www.ncbi.nlm.nih.gov/pubmed/20141630
SILVER NITRATE	Silver nitrate may be far superior to podophyllin in clearing HPV external anogenital warts.	http://www.ncbi.nlm.nih.gov/pubmed/19565941
SILVER NITRATE	Efficacy of 10% silver nitrate solution in the treatment of common warts: a placebo-controlled, randomized, clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/17269982
SILVER NITRATE	Efficacy of silver nitrate pencils in the treatment of common warts.	http://www.ncbi.nlm.nih.gov/pubmed/8051319
SINECATECHINS	Sinecatechins (Polyphenon E) ointment for treatment of external genital warts and possible future indications	http://www.ncbi.nlm.nih.gov/pubmed/24766274
SINECATECHINS	Treatment of recalcitrant facial verrucae vulgares with sinecatechins (greentea catechins) ointment	http://www.ncbi.nlm.nih.gov/pubmed/24341392
SINECATECHINS	Sinecatechins ointment 15% for the treatment of external genital warts.	http://www.ncbi.nlm.nih.gov/pubmed/23067286
SINECATECHINS	A cost-effectiveness analysis of sinecatechins in the treatment of external genital warts.	http://www.ncbi.nlm.nih.gov/pubmed/19929627
SINECATECHINS	Efficacy, safety and tolerability of green tea catechins in the treatment of external anogenital warts: a systematic review and meta-analysis.	http://www.ncbi.nlm.nih.gov/pubmed/21294779
SINECATECHINS	Sinecatechins, a defined green tea extract, in the treatment of external anogenital warts: a randomized controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/18515521
TELLURIUM	Topical treatment for human papillomavirus-associated genital warts in humans with the novel tellurium immunomodulator AS101: assessment of its safety and efficacy.	http://www.ncbi.nlm.nih.gov/pubmed/18808418
TRICHLOROACETIC ACID	Comparative study of topical 80% trichloroacetic acid with 35% trichloroacetic acid in the treatment of the common wart.	http://www.ncbi.nlm.nih.gov/pubmed/23135096
TRICHLOROACETIC ACID	Adjunctive trichloroacetic acid therapy enhances squaric acid response to verruca vulgaris.	http://www.ncbi.nlm.nih.gov/pubmed/23134989

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TRICHLOROACETIC ACID	Treatment of external genital warts comparing cryotherapy (liquid nitrogen) and trichloroacetic acid	http://www.ncbi.nlm.nih.gov/pubmed/8108758
ZINC	Topical zinc sulphate solution for treatment of viral warts.	http://www.ncbi.nlm.nih.gov/pubmed/17768472
ZINC	Topical zinc oxide vs. salicylic acid-lactic acid combination in the treatment of warts.	http://www.ncbi.nlm.nih.gov/pubmed/17442091
ZINC	Oral zinc sulfate treatment for viral warts: an open-label study.	http://www.ncbi.nlm.nih.gov/pubmed/21352302
ZINC	Zinc deficiency in patients with persistent viral warts.	http://www.ncbi.nlm.nih.gov/pubmed/20378032
ZINC	Oral zinc sulfate for unresponsive cutaneous viral warts: too good to be true? A double-blind, randomized, placebo-controlled trial.	http://www.ncbi.nlm.nih.gov/pubmed/20055878
ZINC	Topical zinc sulphate solution for treatment of viral warts.	http://www.ncbi.nlm.nih.gov/pubmed/17768472
ZINC	Topical zinc oxide vs. salicylic acid-lactic acid combination in the treatment of warts.	http://www.ncbi.nlm.nih.gov/pubmed/17442091
ZINC	Oral zinc sulphate in the treatment of recalcitrant viral warts: randomized placebo-controlled clinical trial.	http://www.ncbi.nlm.nih.gov/pubmed/11952542