

# Prevention of recurrence of genital wart lesions after laser and cryotherapy using green tea extract

<b>Submission date</b> 12/03/2018	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 22/03/2018	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 19/05/2023	<b>Condition category</b> Infections and Infestations	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

External genital warts (EGW) are the most common viral sexually transmitted infection. Ablative treatments like cryotherapy, curettage and CO2 laser therapy offer rapid onset of effect, fast clearance, and reduction of viral load. However, these procedures are associated with high recurrence rates (RR) of 20–77% in the short and medium term and do not provide sustained clearance. After laser therapy removal of EGW, a RR up to 60% has been reported. Topical sinecatechins 10% is a patient-applied regimen for the treatment of EGW with a low RR (6.5%) at 3 months after completion of the therapy in the pivotal trials conducted so far. Sinecatechins can be considered a suitable proactive sequential therapy (PST) after ablative strategies to obtain a low RR. No prospective data are available so far regarding the efficacy of sinecatechins 10% as PST. We evaluated, the efficacy and tolerability of topical sinecatechins 10% applied twice daily in subjects with recurrent EGW after ablative therapies with CO2 laser or cryotherapy in a multicenter randomised masked outcome trial trial.

### Who can participate?

Adults with multiple external genital warts.

### What does the study involve?

The treatment is an ointment containing sinecatechins extracted from green tea. The ointment is applied twice a day to areas where genital warts have been removed using laser or cryotherapy.

### What are the possible benefits and risks of participating?

The ointment of green tea extract evaluated in this trial can be considered safe because no systemic side effects have been recorded in clinical trials performed in more than 1500 subjects so far. Self-limited, (in general mild or moderate), local reactions like burning and itching sensations might be observed in up to 60% of the subjects but these side effects disappear in few days. The potential benefit is the preventive effect in lowering recurrence percentage of new genital warts lesions, therefore reducing the need for, and associated risk, time loss and cost of, additional ablative procedures (laser, cryotherapy etc).

Where is the study run from?

The study is run from the Dermatology Clinic, University Tor Vergata Rome. There are four centres in total.

When is the study starting and how long is it expected to run for?

The study started in June 2017 and finished in February 2018.

How long will the trial be recruiting participants for?

The trial recruited between August and October 2017.

Who is the main contact?

Dr Massimo Milani

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## Contact information

### Type(s)

Scientific

### Contact name

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## Additional identifiers

### Protocol serial number

VEREGEN1/17

## Study information

### Scientific Title

Efficacy of sinecatechins 10% as proactive sequential therapy of external and perianal genital warts after ablative therapy: A prospective randomized multicenter study

### Study objectives

To assess if the use of topical sinecatechins 10% (green tea extract) as sequential proactive treatment after ablative therapies (laser cryotherapy) could reduce the risk of recurrence of new genital wart lesions

### Ethics approval required

Old ethics approval format

**Ethics approval(s)**

IRB of Tor Vergata University, 12/07/2017, RS 116/17

**Study design**

Prospective controlled randomized parallel group (3:1) masked-outcome assessment multicenter trial

**Primary study design**

Interventional

**Study type(s)**

Prevention

**Health condition(s) or problem(s) studied**

External genital warts

**Interventions**

Veregen (ointment formulation of 10% sinecatechins derived from green tea extract) was applied in the area of condyloma previously treated with laser or cryotherapy. Patients were instructed to apply the ointment twice daily, at 12-h intervals, for 3 months. Control group patients received no treatment after ablation.

**Intervention Type**

Drug

**Phase**

Phase IV

**Drug/device/biological/vaccine name(s)**

Veregen (topical 10% sinecatechins: green tea extract)

**Primary outcome(s)**

Recurrence of new external genital warts at 3 months after the last ablative treatment session

**Key secondary outcome(s))**

1. Tolerability
2. Safety profile

At each study visit at months 1, 2 and 3, the investigator assessed local skin signs, including erythema, oedema, induration, vesicles, erosion/ulceration, other skin signs and overall skin signs, and the patient was questioned about local skin symptoms, including burning, itching, pain, other skin symptoms and overall skin symptoms. Intensity of all skin reactions at the site of application was graded as: none, mild (local skin reaction which can be easily tolerated), moderate (local skin reaction which is associated with considerable discomfort, but does not prevent usual activity), or severe (local skin reaction which substantially interferes with the patient's usual activity).

**Completion date**

28/02/2018

**Eligibility**

**Key inclusion criteria**

Presence of multiple external genital warts eligible for ablative treatments

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

All

**Key exclusion criteria**

1. HIV-positive subjects
2. Acute inflammatory skin disease

**Date of first enrolment**

01/08/2017

**Date of final enrolment**

31/10/2017

**Locations****Countries of recruitment**

Italy

**Study participating centre**

**Dermatology Clinic University Tor Vergata Rome**

Viale Oxford, 81 - 00133 Roma

Rome

Italy

00133

**Study participating centre**

**Dermatology Clinic University of Catania**

Catania

Italy

100200

**Sponsor information**

**Organisation**

Cantabria Labs Difa Cooper

**ROR**

<https://ror.org/044sr7e96>

## Funder(s)

**Funder type**

Not defined

**Funder Name**

Difa Cooper

## Results and Publications

**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Stored in repository

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	01/02/2019		Yes	No
<a href="#">Results article</a>	Follow up	01/02/2022	19/05/2023	Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes