

# Evaluation of the antimicrobial properties of Neosalus cream when applied to human skin

<b>Submission date</b> 28/11/2018	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 28/12/2018	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 18/01/2023	<b>Condition category</b> Skin and Connective Tissue Diseases	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

A defective skin barrier and bacterial colonization are two important factors in maintenance and progression of dry skin and eczema. The aim was to evaluate the antimicrobial efficacy of Neosalus cream.

### Who can participate?

Healthy subjects at least 18 years of age of both genders who had normal skin that was free of disease and injury.

### What does the study involve?

Upon completion of a 7-day product restriction period, a trained technician applied the test cream to the skin of one forearm. The other forearm received no test cream. Four sites were delineated on the skin of each forearm and, 10 minutes following the product application procedure, the sites were exposed to bacteria for contact times of 5 minutes, 10 minutes, 20 minutes, and 40 minutes. A collection liquid was then placed on the surface of the skin for one minute and then removed. The number of bacteria present in the collection liquid was then assessed in the laboratory. All participants received the same treatment.

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

There was nothing for the individual to gain from participating. No side effects were expected.

### Where is the study run from?

The study was performed by Bioscience Laboratories, Bozeman Montana.

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

Study started 10/11/2009 – completed 29/03/2010

### Who is funding the study?

Exceltis USA Dermatology

### Who is the main contact?

Ruby Ghadially [ruby.ghadially@ucsf.edu](mailto:ruby.ghadially@ucsf.edu)

# Contact information

## Type(s)

Scientific

## Contact name

Prof Ruby Ghadially

## Contact details

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# Additional identifiers

## Protocol serial number

2018-001

# Study information

## Scientific Title

Phase 1 of a Two-Phase Evaluation of the Antimicrobial Properties of Various Product Formulations

## Study objectives

Neosalus Cream will have antimicrobial effects when applied to human skin.

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Gallatin Institutional Review Board, 20/11/2009, ref. 090426-150.0

## Study design

Single centre, blinded, within-subject, interventional

## Primary study design

Interventional

## Study type(s)

Treatment

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

Dry skin

## Interventions

Twenty subjects, ten subjects per group, were evaluated on the forearms to determine the efficacy of Neosalus by comparing the recoveries of Escherichia coli (ATCC #11229) and Staphylococcus aureus MRSA (ATCC #33593) bacteria from the skin of treated forearms to recoveries from the skin of untreated forearms.

After a 7-day product restriction period, a trained technician applied 1ml neosalus cream to the skin of one randomly assigned forearm. The left or right forearm was randomized to treatment with the test formulation, and the remaining forearm served as the untreated control. Following demarcation (see below), the four test sites of the skin of each forearm were assigned randomly and bilaterally to post-treatment sample times.

Four sites were delineated on the skin of each forearm and, 10 minutes following the product application procedure, the sites were exposed to the randomly assigned challenges of bacterial suspensions (Staphylococcus aureus or Escherichia coli  $1.0 \times 10^7$  CFU/ml) for contact times of 5 minutes, 10 minutes, 20 minutes, and 40 minutes, and then sampled.

On completion of testing, subjects were required to perform a 1-minute rinse of their forearms with 70% ethanol and an air-dry, followed by a supervised 4-minute wash with a 4% chlorhexidine gluconate solution. A topical antibiotic ointment was applied to the forearms following the decontamination procedure.

### **Intervention Type**

Other

### **Primary outcome(s)**

Microbial counts recovered from subjects' forearms was measured using the Cylinder Sampling Technique at 5, 10, 20, and 40 minutes.

### **Key secondary outcome(s)**

N/A

### **Completion date**

29/03/2010

## **Eligibility**

### **Key inclusion criteria**

1. Healthy
2. Over 18 years old

### **Participant type(s)**

Healthy volunteer

### **Healthy volunteers allowed**

No

### **Age group**

Adult

### **Lower age limit**

18 years

**Sex**

All

**Total final enrolment**

20

**Key exclusion criteria**

1. Clinically evident dermatosis
2. Skin injury

**Date of first enrolment**

07/12/2009

**Date of final enrolment**

14/12/2009

## Locations

**Countries of recruitment**

United States of America

**Study participating centre**

**BioScience Laboratories, Inc. (testing facility)**

300 N. Willson Avenue

Bozeman, Montana

United States of America

59715

## Sponsor information

**Organisation**

(973) 324-0200

## Funder(s)

**Funder type**

Industry

**Funder Name**

Quinnova Pharmaceuticals, Inc

# Results and Publications

## Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study are/will be available upon request from: Ruby Ghadially, ruby.ghadially@ucsf.edu, raw data, available by written request.

## IPD sharing plan summary

Available on request

## Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		22/01/2019	18/01/2023	Yes	No
<a href="#">Basic results</a>		10/12/2018	10/12/2018	No	No