

# Use of sunscreens with DNA repair components are more efficacious than sunscreen only in improving keratosis actinica patients clinical outcome after photodynamic therapy

<b>Submission date</b> 04/11/2015	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 05/11/2015	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 29/05/2020	<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

Actinic keratoses (AK) are dry scaly patches of skin caused by damage from years of exposure to sunlight. Photodynamic therapy (PDT) is a well-established treatment for AK that involves the use of a light-sensitive medication and a light source to destroy abnormal cells. After PDT sun-protection strategies are important in order to reduce the risk of new lesions and/or the need for more PDT. A film-forming medical device containing photolyase, a DNA-repairing enzyme with a light-protective action, has been developed (called Ery). The aim of this study is to assess the clinical effects of Ery in comparison with a commercially available sunscreen (SS) in AK patients after successful PDT for the treatment of AK lesions of the scalp.

### Who can participate?

AK patients with at least five AK lesions on the scalp.

### What does the study involve?

Participants are randomly allocated to be treated with either Ery or SS. The number of new AK lesions and the need to perform more PDT are evaluated at 1, 3, 6 and 9 months after PDT.

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

The study products may help in reducing the risk of developing new AK lesions. No specific risks are associated with the use of the two products.

### Where is the study run from?

IFO - Regina Elena - San Gallicano Hospital Dermatology and Oncology Division (Italy)

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

January 2014 to February 2015

Who is funding the study?  
IFO Hospital (Italy)

Who is the main contact?  
Dr Massimo Milani

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Massimo Milani

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<https://orcid.org/0000-0001-7559-1202>

**Contact details**  
Viale Abruzzi 3  
Milan  
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## Additional identifiers

**Protocol serial number**  
Ery-02-2015

## Study information

### Scientific Title

A 9-month, randomised, assessor-blinded parallel-group study to evaluate clinical effects of a film-forming medical devices containing photolyase in the treatment of cancerization field in comparison with sunscreen in patients after successful photodynamic therapy for actinic keratosis

### Study objectives

To assess and compare the clinical effects of a sunscreen containing a DNA-repair substance on the evolution of actinic keratosis (AK) in comparison with a commercially available sunscreen (SS) in AK subjects after a successful photodynamic therapy (PDT) for the treatment of AK lesions of the scalp.

**Ethics approval required**  
Old ethics approval format

**Ethics approval(s)**  
IFO - Regina Elena - San Gallicano Hospital Rome (Italy), November 2014

**Study design**

Randomised parallel-group assessor-blinded prospective trial

**Primary study design**

Interventional

**Study type(s)**

Treatment

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

Actinic keratosis

**Interventions**

Patients are randomised to be treated with either:

1. A film-forming class II medical device containing photolyase, a DNA-repairing enzyme, with a high broad photo-protection action (Ery)
2. A commercially available sunscreen

**Intervention Type**

Device

**Primary outcome(s)**

Evolution of AK lesions after successful PDT, evaluated at baseline and at 1, 3 6 and 9 months after PDT

**Key secondary outcome(s)**

Need for additional PDT procedure, evaluated at baseline and at 1, 3 6 and 9 months after PDT

**Completion date**

02/02/2015

## **Eligibility**

**Key inclusion criteria**

Presence of at least 5 AK lesions on the scalp

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Senior

**Sex**

All

**Key exclusion criteria**

1. Presence of non-melanoma skin cancer lesions
2. Allergy to one of the components of study products
3. Xerodema pigmentosum

**Date of first enrolment**

01/01/2014

**Date of final enrolment**

30/06/2014

## Locations

**Countries of recruitment**

Italy

**Study participating centre**

IFO - Regina Elena - San Gallicano Hospital Dermatology and Oncology Division

Rome

Italy

00100

## Sponsor information

**Organisation**

IFO Hospital (Italy)

**ROR**

<https://ror.org/04j6jb515>

## Funder(s)

**Funder type**

Hospital/treatment centre

**Funder Name**

IFO Hospital (Italy)

## Results and Publications

## Individual participant data (IPD) sharing plan

### 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>	results	01/12/2016	29/05/2020	Yes	No
<a href="#">Participant information sheet</a>	Participant information sheet	11/11/2025	11/11/2025	No	Yes