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Multidisciplinary research and development  
by DEAK KKK  
Red Biotechnology division

■ Clinical investigation of the supplementary effects of R47-PROTUMOL<sup>®</sup> ointment in the treatment of basal cell carcinomas and actinic keratoses before surgical excision or photodynamic therapy

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A projekt az Európai Unió támogatásával, az Európai Regionális Fejlesztési Alap társfinanszírozásával valósul meg.

## Clinical Investigation of the supplementary effects of R47-PROTUMOL<sup>®</sup> ointment

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### Aim of the Investigation

Clinical investigation of the supplementary effects of R47-PROTUMOL<sup>®</sup> ointment in the treatment of basal cell carcinomas and actinic keratoses before surgical excision or photodynamic therapy.

### Duration of the Investigation

From 27 April 2011 to 31 August 2011

Our investigation was performed between 27 April and 31 August 2011 in the Department of Dermatology and Allergology at the University of Szeged, Szeged, Hungary, with the approval and permission of the Regional Human Medical-Biology Research-Ethics Committee of Szeged University.

(The clinical trials were financed by the Hungarian State)

Extract from the clinical trial performed at the Medical University of Szeged:

- While using the R47-PROTUMOL<sup>®</sup> cream several degrees of clinical improvement were experienced among the test subjects.
- The cream significantly reduced the rate of ulceration
- No toxic side effect, no allergic-, irritative reaction occurred while using the R47-PROTUMOL<sup>®</sup> cream
- No progression (growth) was noted in the condition of the tumors during the treatment.

## Basal Cell Carcinoma (BCC)



Before treatment



4 weeks after treatment



Before treatment



1 week after treatment



Before treatment



4 weeks after treatment



Before treatment



3 weeks after treatment

## Actinic Keratosis (AK)



Before treatment



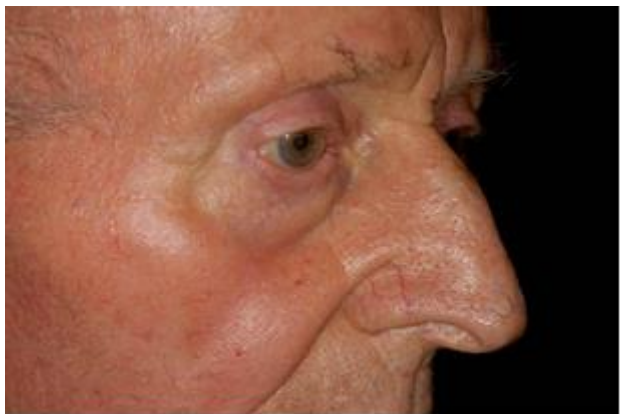
2 weeks after treatment



3 weeks after treatment



Before treatment



2 weeks after treatment



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