

Topical pharmacotherapy for skin cancer

Part II. Clinical applications

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1. Reading of the CME Information (delineated below)
2. Reading of the Source Article
3. Achievement of a 70% or higher on the online Case-based Post Test
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After completing this learning activity, participants should be able to describe the evidence supporting the use of topical therapies in the treatment of skin cancers, including actinic keratosis, basal cell carcinoma, Bowen disease, erythroplasia of Queyrat, extramammary Paget disease, lentigo maligna and melanoma metastases

and identify topical skin cancer therapies that are appropriate for specific clinical indications.

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The purpose of the paper is to provide an in-depth, evidence-based analysis of the clinical use of topical treatments for skin cancer. A comprehensive review of topical drugs has been performed, including 5-fluorouracil, imiquimod, diclofenac, ingenol mebutate, retinoids, resiquimod, piroxicam, dobesilate, and betulinic acid. The evaluated studies were rated according to their level of evidence level (I-V), as indicated by recent guidelines for evidence-based medicine, *The Oxford 2011 Levels of Evidence*. Therapeutic response is generally related to tumor type, extent, and localization, and also to patient compliance. Careful patient selection is required in order to achieve the desired goal of complete tumor clearance. (J Am Acad Dermatol 2014;70:979.e1-12.)

Key words: actinic keratosis; basal cell carcinoma; Bowen disease; erythroplasia of Queyrat; lentigo maligna; melanoma; Paget disease; skin cancer; squamous cell carcinoma; topical treatment.

INTRODUCTION

The incidence of skin cancer is increasing worldwide, with >2 million cases diagnosed in the United States per year.¹ Surgical or invasive procedures represent the main approach, but noninvasive, tissue-sparing, topical self-administered treatments may be a highly desirable alternative, both in aged and unhealthy patients (who may be poor surgical candidates) and in relatively young subjects with lesions located on cosmetically sensitive areas and who wish to avoid disfiguring scars.²

The purpose of this review is to evaluate the effectiveness of topical treatments of skin cancer according to evidence-based medicine guidelines. The mechanism of action, formulations, indications, side effects, and contraindications of these drugs were analyzed in part I of this continuing medical education article.

All studies evaluating topical treatments for skin cancer published in the English literature between January 1960 and June 2013 were analyzed. To accomplish this, an electronic search was performed using the National Library of Medicine PubMed database of the National Institutes of Health and the Ovid MEDLINE database using the phrase "topical treatment" in combination with 1 of the following terms: "skin cancer," "actinic keratosis," "basal cell carcinoma," "squamous cell carcinoma," "Bowen disease," "erythroplasia of Queyrat," "Paget disease," and "melanoma." In addition, pertinent references not identified by search engines and retrieved from articles and books were also considered. All studies identified as relevant were analyzed, including metaanalyses, systematic reviews, clinical trials, controlled studies, and case reports. Evaluated studies were rated according to recent modified guidelines for evidence-based medicine, *The*

Abbreviations used:

5-FU:	5-fluorouracil
AK:	actinic keratosis
BCC:	basal cell carcinoma
BD:	Bowen disease
DHA:	diclofenac 3% gel in 2.5% hyaluronic acid
EPD:	extramammary Paget disease
EQ:	erythroplasia of Queyrat
IM:	ingenol mebutate
IQ:	imiquimod
LM:	lentigo maligna
RQ:	resiquimod
SC:	solar cheilosis

Oxford 2011 Levels of Evidence,³ as follows: level of evidence I, systematic review of randomized trials; II, randomized trial or observational study with dramatic effect; III, nonrandomized controlled cohort/follow-up study; IV, case series, case control studies, or historically controlled studies; and V, mechanism-based reasoning.

ACTINIC KERATOSES

Key points

- **In the management of multiple actinic keratoses, topical therapy should be preferred to more destructive and/or invasive treatments in consideration of the field effect, which allows treatment of both visible and subclinical lesions**
- **A Cochrane review concluded that, among field-directed treatments, 5-fluorouracil, imiquimod, diclofenac 3% gel in 2.5% hyaluronic acid, and ingenol mebutate showed similar efficacy with different adverse events and cosmetic outcomes, and more direct comparisons between these treatments are needed to determine the best efficacy profile**

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