ACTINIC (SOLAR) KERATOSIS PRIMARY CARE TREATMENT PATHWAY



Adapted from the Primary Care Dermatology Society Treatment Pathway)

Nottinghamshire Area Prescribing Committee

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WHAT ARE ACTINIC KERATOSES (AKS)?

Actinic keratoses are areas of squamous dysplasia on chronic sun-exposed skin. This can cause redness, scaling and keratosis. The lesions fluctuate, and spontaneous resolution may occur. They carry a low risk of progression to squamous cell carcinoma (SCC) of less than 1 in 1000 per annum. Actinic keratoses are a marker for the risk of non-melanoma skin cancer. In patients with an average of 7.7 AKs, 10% will develop squamous cell carcinoma in 10 years.

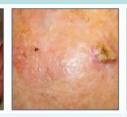
WHAT DO ACTINIC KERATOSES LOOK LIKE?













Grade I: Flat, pink macules without signs of hyperkeratosis and erythema often easier felt than seen. Scale and possible pigmentation may be present.

Grade II: Moderately thick hyperkeratosis on the background of erythema that is easily felt and seen.

Grade III: Very thick hyperkeratosis, or obvious AK; the differential diagnosis includes thick IEC (intra-epidermal carcinoma) or early SCC.

Field damage: Large areas of multiple AKs on a background of ervthema and sun damage.

WHY SHOULD WE TREAT THEM?

- Patients may prefer to get rid of the lesions
- The lesions may become inflamed and sore, spontaneously or with ultraviolet exposure (can be treated with a mild topical steroid and sunblock)
- AKs may be traumatised by simple daily activities such as clothing, tights or combing of the hair
- If numerous lesions are present, treatment can resolve the benign lesions and make neoplastic lesions easier to identify
- Treatment of early lesions may prevent malignant transformation
- Treatment may not be required if the patient declines therapy

WHEN TO WORRY ABOUT MALIGNANT TRANSFORMATION?











Nodular change

Induration – assessed by palpation

hyperkeratosis

Ulceration /squamous proliferation

- very tender actinic keratoses, which do not settle with topical steroids, should be suspected of micro-invasion
- FOR SUSPICIOUS LESIONS, REFER TO SECONDARY CARE ON THE 2-WEEK WAIT SKIN CANCER PATHWAY
- IF YOU ARE UNCERTAIN, CONSIDER THE NOTTINGHAM TELEDERM SERVICE ON THE ERS (SEND IN IMAGES OR USE IMAGE CLINIC)
- if you think it is benign but want a review face to face, refer it routinely to secondary care, or send it to the Mid Nottinghamshire Community Dermatology service (Mansfield and Ashfield, Newark and Sherwood) or the Rushcliffe Community Dermatology service (Rushcliffe).

GENERAL ADVICE ABOUT TREATING ACTINIC KERATOSES

All patients should use regular emollients and sunblock

- 6-week period (daily for 2 weeks,

https://onlinelibrary.wiley.com/doi/10.1111/bjd.15107

2-week break, daily for 2 weeks)

All active treatments cause a significant reactive dermatitis, which takes 4-6 weeks to settle

All patients should be counselled about the expected reaction, so they are not alarmed

- Treatment is not urgent. Patients should use treatment in a socially convenient timeframe (consider autumn /winter)
- If any of the treatments cause a severe intolerable reaction, the treatment should be stopped, and the reaction will start to settle
- A topical steroid can be used to hasten the resolution of the reactive dermatitis
- If complicated by secondary infection, topical or oral antibiotics may be required
- When lesions are limited, only individual lesions need treatment
- When there are multiple lesions or field change, field treatment should be considered (cream is applied to the entire area of affected skin) During field treatment, clinical and sub-clinical actinic keratoses will react
 - Successful field treatment can give patients a long recurrence-free period
 - No treatment is curative, and recurrence of the lesions can occur
- Treatment success depends on the response to treatment and the extent of the condition
- Treatment is successful if the skin is normal to touch with your eyes closed (background erythema and pigment may remain)
- Extensive disease may need more than one treatment for clearance

TREATMENT RESPONSE SHOULD BE ASSESSED AT 6 WEEKS AFTER COMPLETION OF TREATMENT

- Secondary care options for actinic keratoses include cryotherapy, photodynamic therapy and 5% imiquimod (Aldara®).
- If the response to treatment is limited, reassess if the diagnosis is correct or if there is any sign of malignant transformation, seek advice

TREATMENT OPTIONS FOR ACTINIC KERATOSIS

AK PIL:

Actinic (solar) keratosis (pcds.org.uk) **British Association of Dermatologists (bad.org.uk)**

EN Zvcla PI (medicines.org.uk)

Treatment Area Treatment schedule Notes Patient information leaflets treatment **Emollients** - no limit - Apply whenever the skin is dry - helps resolve keratosis /dryness - use after active treatments below Sunblock - no limit - During any sun exposure - prevents UV induced inflammation Sunscreen-Fact-Sheet.pdf (skinhealthinfo.org.uk) - prevents further photodamage NHS Sunscreen and sun safety (www.nhs.uk) **Efudix®** - up to 500 cm² - Twice a day for 4 weeks - clearance rates of 80% (best) (5-fluorouracil cream - 22 x 23 cm - large 40g tube 5%) - can be reduced to once daily Actinic Keratosis Efudix (download) - not to be used if pregnant or breastfeeding 5-Fluorouracil Cream (wpengine.com) - effective contraception must be used during and after treatment Klysiri® - Up to 25 cm² - Once a day for 5 days - 5 sachet box Information about your AK treatment (Tirbinabulin cream) - 5 x 5 cm - reaction takes 3 weeks to settle **Actikerall®** - up to 25 cm² - Once a day for 6-12 weeks - bottle with a brush applicator (0.5% 5 fluorouracil and - 5 x 5 cm - good for thick keratotic lesions Actikerall PIL.pdf (sfh-tr.nhs.uk) 10% salicylic acid)

- 28 sachet box

- flu-like symptoms may occur

FURTHER READING

Zyclara[®]

(3% imiquimod cream)

Next review: July 26

V2.1 July 24 (Efudix pregnancy warning).

- up to 25 cm²

- 5 x 5 cm

Primary Care Dermatology Society- Actinic Keratosis https://www.pcds.org.uk/clinical-quidance/actinic-keratosis-syn-solar-keratosis British Association of Dermatologists guidelines for the care of patients with actinic keratosis 2017