

# ACTINIC KERATOSES - ALSO KNOWN AS SOLAR KERATOSES

#### What are the aims of this leaflet?

This leaflet has been written to help you understand more about actinic keratoses. It tells you what they are, what causes them, what can be done about them, and where you can find out more about them. Another name for actinic keratosesqis solar keratosesq but for convenience we shall use only the term actinic keratosesqin this leaflet.

#### What are actinic keratoses?

Actinic keratoses are areas of sun-damaged skin found predominantly on sun-exposed parts of the body, particularly the backs of the hands and forearms, the face and ears, the scalp in balding men and the lower legs in women. The terms actinic and solar are from Greek and Latin, respectively, for sunlight-inducedq and the term keratosis refers to thickened skin. They are usually harmless but there is a very small risk of some actinic keratoses progressing to a form of skin cancer called squamous cell carcinoma (see Patient Information Leaflet on Squamous Cell Carcinoma). Actinic keratoses are not contagious.

#### What causes actinic keratoses?

They are caused by excessive sun exposure over many years (from sunbathing, sunbed use, outdoor work or recreational activities) and are therefore more common in older people. Fair-skinned, blue-eyed, red- or blonde-haired individuals, who burn easily in the sun but tan poorly, are at particular risk.

Are actinic keratoses hereditary?

No, but some of the factors that increase the risk of getting actinic keratoses

such as a tendency to burn rather than tan, and freckling, do run in families.

What are the symptoms of actinic keratoses?

They often cause little trouble. Many affected individuals are not aware of them at all. The affected skin feels rough and dry. However, if an actinic

keratosis starts to grow into a lump, becomes itchy, tender or starts to bleed, medical advice should be sought as these changes could indicate the

development of skin cancer (a squamous cell carcinoma).

What do actinic keratoses look like?

Actinic keratoses can be variable in appearance, even differing from one

another within a single individual. At first they can be hard to see, and are more easily felt, being rough, like sandpaper. They may grow up to a centimetre or two in diameter. Some are skin coloured, others are pink, red or

brown. They can become raised, hard and warty, and may even develop a

small horny outgrowth. The surrounding skin often looks sun-damaged -

blotchy, freckled and wrinkled.

How are actinic keratoses diagnosed?

Usually the appearance of an actinic keratosis is sufficient to enable the diagnosis to be made, but in cases of doubt, for example if an early skin

cancer is suspected, a sample (or the whole lesion) may be removed under a

local anaesthetic for microscopic examination in the laboratory.

Can actinic keratoses be cured?

Yes - but others may develop in the future from the surrounding sun-damaged

skin.

How can actinic keratoses be treated?

It is advisable to protect the skin from further sun damage (for example, by

wearing a hat, long sleeves and a sunscreen with a high sun protection

factor).

Occasionally, small actinic keratoses may go away spontaneously, but generally it is advisable to treat them as there is a small risk that some might

transform into a skin cancer.

#### Treatments used for actinic keratoses:

- Freezing with liquid nitrogen (Cryotherapy). This is an effective treatment which does not normally leave a scar, but it can be painful. (see Patient Information Leaflet on Cryotherapy)
- Surgical removal. This requires local anaesthetic, after which the
  actinic keratosis can be scraped off with a sharp spoon-like instrument
  (a curette), or it can be cut out and the wound closed with stitches.
  Surgical removal leaves a scar but provides a specimen that can be
  analysed in the laboratory to confirm the diagnosis.
- Creams. Courses of creams containing drugs called 5-fluorouracil or imiquimod are useful treatments for actinic keratoses, especially if there are a lot of them. These preparations appear to selectively destroy the abnormal cells in sun-damaged skin. However, they often cause a good deal of temporary inflammation of the treated areas. Diclofenac and retinoic acid are other drugs in cream or ointment form that are helpful when applied to actinic keratoses.
- Photodynamic therapy. A chemical is applied to the affected area, which is then treated with the correct wavelength of visible light. This treatment is only available in certain hospitals (see Patient Information Leaflet on Photodynamic Therapy).

### What can I do?

Protecting your skin from the sun will reduce the number of new actinic keratoses you get, and also reduce the risk of getting a sun-induced skin cancer. You should be extra cautious in the sun by following these recommendations:

- Protect yourself from the sun, from 11 a.m. to 3 p.m., especially in sunny weather.
- Wear protective clothing hats, long sleeves, long skirts or trousers.
- Apply a sunscreen regularly, of sun protection factor 30 or above (and able to block both UVA and UVB light), to exposed skin before going into the sun, and re-apply according to the manufacturercy recommendations, especially after swimming, when you are out in the sun.
- Protecting your children from the sun in the same way may reduce their risk of developing actinic keratoses.
- Avoid sunbeds.
- Examine your own skin every few months and see your doctor if an actinic keratosis starts to itch, bleed, or thicken, in case it has changed into a skin cancer (a squamous cell carcinoma).

## Where can I find out more about actinic keratoses?

Web links to detailed leaflets:

<u>www.skincarephysicians.com/actinickeratosesnet</u> www.emedicine.com/derm/topic9.htm

This leaflet aims to provide accurate information about the subject and is a consensus of the views held by representatives of the British Association of Dermatologists: its contents, however, may occasionally differ from the advice given to you by your doctor.

This leaflet has been assessed for readability by the British Association of Dermatologists' Patient Information Lay Review Panel

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