

## LENTIGO MALIGNA AND MELANOMA IN SITU

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

This leaflet has been written to help you understand more about lentigo maligna and melanoma in situ. It will tell you what they are, what causes them, what can be done about them, and where you can find out more about them.

## What are lentigo maligna and melanoma in situ?

Lentigo maligna and melanoma in situ are the very earliest stage of a skin cancer called melanoma.

The word 'melanoma' comes from the Greek word \*melasq meaning black. Melanin is the dark pigment that gives the skin its natural colour. Melanin is made in the skin by pigment cells called melanocytes. After our skin is exposed to sunlight, the melanocytes make more melanin, and so the skin becomes darker.

Melanocytes sometimes grow together in harmless groups or clusters, which are known as moles. Most people have between 10 and 50 moles and often they are darker than the surrounding skin.

Melanomas can arise in or near to a mole, but can also appear on skin that looks quite normal. They develop when the skin pigment cells (melanocytes) become cancerous and multiply in an uncontrolled way. They can then invade the skin around them and may also spread to other areas such as the lymph nodes, liver and lungs.

'In situ' means that the cancer cells have not had the opportunity to spread to anywhere else in the body. There are cancer cells in the top layer of the skin (the epidermis) but they are all contained in the area in which they began to develop. They have not started to spread or grow into deeper layers of the

skin and have not become invasive. This is why some doctors call in situ cancers pre cancerq The prognosis is excellent.

Lentigo maligna is a type of melanoma in situ. It is a slow growing lesion that appears in areas of skin that get a lot of sun exposure, such as the face or upper body. Because it grows slowly it can take years to develop. Similar to melanoma in situ, lentigo maligna has not spread and is only in the top layer of skin.

Both melanoma in situ and lentigo maligna are cured with surgery. However if not treated with appropriate surgery, they can develop into an invasive cancer. This is why it is important to have them removed with an adequate surgical margin and to know about preventative measures you can take which will lower your risk of these conditions occurring again in the future.

# What causes lentigo maligna and melanoma in situ?

The most important preventable cause is exposure to too much ultraviolet light in sunlight, especially during the first 20 years of life. They are especially common in white-skinned people who live in sunny countries. The use of artificial sources of ultraviolet light, such as sun beds, also raises the risk of getting a melanoma.

Some people are more likely to get a melanoma than others:

- About 7,000 people in the UK get diagnosed with melanoma each year.
   It is more common in women than men. It is a very rare cancer in children, but it is the second most common cancer in people aged 15 to 34.
- The risk is increased if another family member has had a melanoma.
- People who have already had one melanoma are at an increased risk of getting another one.
- Some people have many unusual (atypical) moles. They tend to be larger than ordinary moles, to be present in large numbers, and to have irregular edges or colour patterns. The tendency to have these moles can run in families and carries an increased risk of getting a melanoma.
- People who burn easily in the sun are particularly at risk. They occur
  most often in fair-skinned people who tan poorly. Often they have blond
  or red hair, blue or green eyes, and freckle easily. They are less
  common in dark-skinned people.
- Past episodes of severe sunburn, often with blisters, and particularly in childhood, increase the risk of developing them. However, not all of them are due to sun exposure, and some appear in areas that are normally kept covered.

 People with many (more than 50) ordinary moles, or with a very large dark hairy birthmark, have a slightly higher than average chance of developing a melanoma.

People with a damaged immune system (e.g. as a result of an HIV infection or taking immunosuppressive drugs, perhaps after an organ transplant) have an increased chance of getting a melanoma.

Are lentigo maligna and melanoma in situ hereditary?

About 1 in 10 of people with a melanoma has family members who have also had one. There are several reasons for this. Fair skin is inherited, while atypical moles and a tendency to have large numbers of ordinary moles also

run in families.

What are the symptoms of lentigo maligna and melanoma in situ?

Lentigo maligna may appear as a long-standing discoloured patch, most commonly on the face, which slowly enlarges and develops darker areas. Many melanomas start as minor changes in the size, shape or colour of an existing mole (see below); others begin as a dark area that can look like a new mole. Most in situ (very early) melanomas do not cause any symptoms, but tingling or itching may occur. If a lentigo maligna or an in situ melanoma is not treated early, later it could become hard and lumpy, and bleed, ooze or

crust.

What do lentigo maligna and melanoma in situ look like?

All melanomas do not look the same, and there are several different types. The **ABCDE** system (below) tells you some of the things to look out for.

A melanoma may show one or more of the following features:

Asymmetry. the two halves of the area differ in their shape.

**B**order . the edges of the area may be irregular or blurred, and sometimes show notches.

**Colour** . this may be uneven. Different shades of black, brown and pink may be seen.

**Diameter**. most melanomas are at least 6 mm. in diameter.

**Evolution** . rapid change in a pre-existing mole.

Melanomas can appear on any part of the skin but they are most common in men on the body, and in women on the legs. Lentigo maligna is common in areas of skin that get a lot of sun exposure, such as the face or upper body.

# How is the diagnosis of lentigo maligna or melanoma in situ made?

If you are at all worried about changes in a mole, or about a new area of pigmentation appearing on your skin, you should see your family doctor. The ABCDE changes listed above can sometimes be found in completely harmless conditions, and your doctor may be able to put your mind at rest. However, if there is still any doubt, your doctor will usually refer you to a specialist (a dermatologist or a surgeon with a special interest in pigmented lesions) who will examine the area and decide whether it needs to be removed.

If the mole needs to be examined under a microscope, the whole of the suspicious area will then be removed under a local anaesthetic (a procedure known as excision) and sent to the laboratory to be examined. If the area is too large to remove easily, a sample of it (an incisional biopsy) will be taken. If a melanoma is found, the pathology report will provide valuable information that will help to plan the next step in treatment.

## Can lentigo maligna and melanoma in situ be cured?

Yes, the outlook for lentigo maligna and melanoma in situ is excellent. It is very rare for them to come back because they were ±n situq therefore they will not have had an opportunity to spread elsewhere in the body.

#### How should lentigo maligna and melanoma in situ be treated?

At present, the treatment for lentigo maligna and melanoma in situ is surgical. There is no other treatment of proven benefit, and usually no other tests are needed. Most people who have had a lentigo maligna, or melanoma in situ, removed will need another operation to try to prevent the melanoma from coming back at the original site. During the operation, some healthy skin will be removed from around the original scar to make absolutely sure that all of the melanoma has been taken away, and this makes the scar larger than before. Occasionally a skin graft will be needed.

The British Association of Dermatologists and other health organisations such as NICE (National Institute for Health and Clinical Excellence) state that people who have had a lentigo maligna and melanoma in situ do not need any follow up visits with their specialist. This is because in situ melanomas are very unlikely to come back once the area has been removed. Due to the excellent prognosis of lentigo maligna and melanoma in situ, you will usually be seen once again in clinic and then discharged.

#### What can I do?

Once your melanoma has been treated, you should be able to get back to a normal lifestyle quite quickly. You should also take a few sensible precautions to stop yourself getting another one:

You should look at all areas of your skin monthly for moles that are growing, or changing in the ways listed in the **ABCDE** rules (see above). If you find any worrying changes, contact your doctor immediately.

You must also protect yourself from too much sun. This means that you need to be careful to avoid sunbathing, sunburn and tanning. You can do this by covering yourself up and using sun protection creams, especially if on holiday in a hot country.

Covering up is better than using a sunscreen. Wear long sleeves, use a hat when out in the sun, and wear long trousers rather than shorts. Use clothing with a tight weave that will block ultraviolet light. Avoid the sun particularly from 11 a.m. until 3 p.m. . when its rays are strongest. Seek shade whenever possible. Use a high factor sunscreen (factor 30 or above) on areas you cand cover. A broad spectrum one is best, as it will block both types of ultraviolet radiation (UVA and UVB). Put it on half an hour before going out and reapply it at least every 2 hours, but dond use these sunscreens as an excuse to stay out in the sun or not to bother with protective clothing. Do not use sun beds and tanning lamps. Share sun advice and other information with blood relatives as they also may be at increased risk of getting a melanoma. In particular, protect your children from the sun, as exposure during childhood seems to be particularly damaging.

#### Top sun safety tips

- Protect your skin with clothing, and dond forget to wear a hat that protects your face, neck and ears, and a pair of UV protective sunglasses.
- Spend time in the shade between 10am and 3pm when its sunny.
- When choosing a sunscreen look for a high protection' SPF (SPF 30 or more) to protect against UVB, and the UVA circle logo and/or 4 or 5 UVA stars to protect against UVA. Apply plenty of sunscreen 15 to 30 minutes before going out in the sun, and reapply every two hours and straight after swimming and towel-drying.
- Keep babies and young children out of direct sunlight
- The British Association of Dermatologists recommends that you tell your doctor about any changes to a mole or patch of skin. If your GP is concerned about your skin, make sure you see a Consultant

- Dermatologist . an expert in diagnosing skin cancer. Your doctor can refer you for free through the NHS.
- Sunscreens should not be used as an alternative to clothing and shade, rather they offer additional protection. No sunscreen will provide 100% protection.
- It may be worth taking Vitamin D supplement tablets (available from health food stores) as strictly avoiding sunlight can reduce Vitamin D levels
- Having had a melanoma does have some practical disadvantages. It can be difficult to obtain life or health insurance, particularly for the first five years after your diagnosis. It can also be difficult to obtain a mortgage. However, some insurance companies will be flexible so long as it is confirmed to them that you only had a lentigo maligna or a melanoma in situ that was not invasive and was completely excised.

# Where can I find more information about lentigo maligna and melanoma in situ?

This leaflet may not have answered all of your questions, but we hope it has helped. It is completely normal not to remember what your doctor or the nursing staff tells you initially at diagnosis. For this reason, they often say the same things to you a number of times. In many departments, a skin cancer specialist nurse is available to go through the information in more detail and to act as a contact link for patients when needed.

#### Links to patient support groups:

Macmillan Cancer Support 89 Albert Embankment London, SE1 7UQ

Tel: 0808 808 2020 / 0808 800 1234

Web: www.macmillan.org.uk

Cancer Research UK
PO Box 123, Lincolnos Inn Fields
London, WC2A 3PX
Tel: 020 7242 0200

Web: www.cancerhelp.org.uk

Other useful websites:

www.skincancer.org/melanoma www.wessexcancer.org 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.

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