

Cancer of the skin is a change in your skin cells during which they grow abnormally and form a malignant tumor. These abnormal cells can invade your body, become implanted in other organs, and continue to grow, a process called metastasis.

The skin is the most common part of the body in which cancer develops. Squamous cell carcinoma (SCC) is the most common type of skin cancer of the hand, followed by basal cell carcinoma and melanoma. There are other, more rare forms of this cancer such as Kaposi's sarcoma, dermatofibrosarcoma protuberans, sweat gland tumors, and Merkel cell carcinoma.

## Causes

SCC, basal cell carcinoma, and melanoma are all associated with chronic sun exposure, a light or fair complexion, and immune suppression. Other factors include:

- Radiation exposure
- Exposure to certain chemicals such as arsenic
- Certain genetic conditions such as xeroderma pigmentosum and Gorlin syndrome

It may be more likely that you will suffer from melanoma if you have the following:

- Actinic keratosis (scaly, crusty growths)
- Cutaneous horns (cone-like bumps on the skin)
- Bowen's disease
- Certain family history
- Certain types of moles

## Signs and Symptoms

### Squamous cell carcinoma (SCC)

This type of skin cancer may look like small, firm nodules on the skin. They are often brown or tan in color and may result in scales, ulcers, bleeding, or crusting. The scaly, crusty top layer can build up, creating a cutaneous horn. Some people may mistakenly think that the cancer is just a cut or infection that won't seem to heal (Figure 1). For some, SCC will result in large, mushroom-like growths. SCC has a high potential to metastasize, especially to lymph nodes.

### Basal cell carcinoma

This type of skin cancer results in small, well-defined nodules with a translucent, pearly border. These too may ulcerate and look like a chronic sore. They tend to be slower-growing, with less of a tendency to metastasize.

### Melanoma

Melanomas often look like moles or birthmarks. Any of the signs shown below, also known as the ABCDEs of

melanoma, can be a sign of the disease.

- A – Asymmetry (shape is irregular)
- B – Border is irregular
- C – Color (varied colors or shades)
- D – Diameter is greater than 6 mm (1/4 inch)
- E – Evolving (changing in any way)

## How is Skin Cancer Diagnosed?

Diagnosis starts with you asking your doctor to inspect your skin. A careful history and physical examination will be performed. A biopsy will be needed to confirm that the lump is malignant. This can be done by either taking a small part of a big lump or entirely removing a small one.

The lymph nodes should also be examined, as they are a common site for metastasis, especially for melanoma and SCC. Other evaluations, such as a sentinel lymph node biopsy, CT scan, and/or PET scan may be needed to check for metastasis, especially with melanoma.

## Treatment

The standard treatment for skin cancer is surgical removal of the cancer. Additional treatments such as radiation and/or chemotherapy may also be needed.

The best treatment for this cancer is prevention. Be sure to take the following precautions:

- Wear protective clothing and sunscreen in the sun.
- Avoid exposure to high-risk chemicals such as arsenic.
- Check your skin regularly with a dermatologist and show any abnormal skin problems to your doctor right away.

**Figure 1:** Squamous cell carcinoma sometimes looks like a cut or infection that does not heal. This is an example of one in the nail bed.

