Skin changes

Cancer treatments may cause different types of skin changes and reactions, which could be a source of discomfort and pain. Although skin changes are usually mild and will improve once treatment completes, some may be potentially serious or can

cause long-term damage. However, not all changes are negative and certain rashes are actually associated with better response to cancer treatment. It is thus important to inform your doctor or nurse once you notice any skin changes or reactions, so that they can be assessed and treated promptly.



Causes of Skin changes

- **Chemotherapy**. Chemotherapy targets the fast-growing cells in our bodies, and these include our skin cells. Changes can occur over any area of the body (e.g. darkening of the skin under your nails). At times, skin changes can indicate an allergic reaction to the chemotherapy drug received.
- Radiation therapy. Skin changes for people undergoing radiation therapy usually occurs over the part of the body that is receiving radiation, after 1-2 weeks of treatment. They usually improve a few weeks after treatment ends.
- Targeted therapy. Acne-like rashes on the face and upper body may occur
 within the first few weeks of taking certain types of targeted therapy, together
 with other skin-related problems like dryness, itch and increased sensitivity to
 sunlight. Examples of targeted therapy drugs that cause skin changes include:
 Afatinib, Cetuximab, Erlotinib, Everolimus, Gefitinib, Lapatinib, Osimertinib,
 Panitumumab, Sorafenib, Sunitinib, and Vemurafenib.
- **Immunotherapy.** Skin changes caused by immunotherapy depends on the specific drug received, and may include itch, redness, blistering or yellowing of the skin and eyes. Common immunotherapy drugs that cause skin-related problems are: Nivolumab, Pembrolizumab, Atezolizumab, Ipilumimab.
- **Graft versus host disease**. Graft versus host disease, a complication after stem cell transplant whereby the donor cells recognises the body's own cells as foreign and attacks them, can lead to skin problems like rashes and blisters.

- Prolonged pressure. Difficulties in moving about can lead to constant pressure
 on certain areas of the body, and this can cause pressure skin ulcers to form.
 The tailbone, ears and heels of the feet are common areas of pressure skin
 ulcers, as there are lesser fats over those areas. Prevention is key to the
 management of pressure skin ulcers, and prompt treatment is important to
 reduce discomfort and prevent them from getting worse.
- Cancer. Cancer sometimes can break the skin and cause wounds that are called "malignant wounds". Problems associated with these wounds include odour, bleeding or fluid leakages. Speak to your nurse if you have a malignant wound he or she will be able to advise you on how best to manage the wound.

What you need to look out for

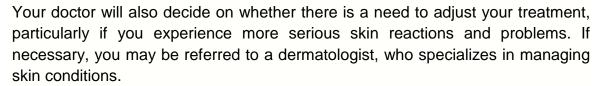
Depending on your condition and the type of cancer treatment you are receiving, skin changes that you may experience can include:

- Dry, peeling or flaky skin
- Redness
- Itch
- Photosensitivity (increased sensitivity to sunlight, getting sunburns more easily)
- Hyperpigmentation (development of dark patches or generalised darkening of skin)
- Discoloration over vein where chemotherapy was administered
- Rashes (Acne-like or any form of inflamed, irritated or swollen skin)
- Hives (Raised, itchy skin rashes)
- Blistering or wet sores
- Burning or pain over skin changes
- Broken skin over pressure areas
- Tingling or numbness in palms or soles

How it can be treated

Treatment will depend on the <u>cause</u> and <u>severity</u> of your skin problems, as well as any <u>associated</u> <u>symptoms</u> you may experience. These may include:

- Skin care advice (see section on "What you can do" below)
- Medicated skin creams (e.g. creams containing corticosteroids) to relieve your discomfort
- Antibiotic treatment if there are signs of infection
- Antihistamines (e.g. Zyrtec) to treat allergic reactions and help relieve generalised itch
- Painkillers if pain is present





Although some skin changes cannot be avoided entirely, there are things you can do to reduce uncomfortable symptoms and prevent complications. Even before starting any cancer treatment, start moisturizing and protecting your skin on a regular basis. The following are some other steps you can take:

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- Use only mild soaps to cleanse your skin. Pat dry yourself, instead of rubbing vigorously, after bathing. This applies to areas of irritation as well
- Take lukewarm instead of hot showers or baths. Keep showers and baths short, and avoid bubble baths
- Avoid skin products with alcohol or fragrance (including perfumes, colognes, soaps, aftershaves) as they can cause irritation and dryness
- Avoid being in direct sunlight
- Avoid alcohol and caffeine



- Use fragrance-free, hypoallergenic cream-based moisturizers or lotions to moisturize your skin at least twice a day. Apply moisturizer within 5 minutes after showering, when your skin is still damp
- Keep yourself well hydrated. Drink plenty of fluids unless instructed otherwise by your doctor
- Apply sunscreen with sun protection factor (SPF) of at least 30, especially over areas not covered by clothing. Use sun-protective lip balm. Sun protection should be done when going outdoors, even on cloudy days
- Wear loose-fitting long-sleeved clothes to prevent sunburn and protect any areas of irritation or radiation treatment area from the sun. Choose undergarments and clothes that are made of cotton or other soft fabrics, to prevent skin irritation. Use mild detergent to wash clothes
- Wear comfortable socks and shoes to protect against injury
- Keep areas of skin irritation clean and dry. Avoid shaving where skin irritation occur (e.g. face for men), at least for a few days or until it resolves
- Protect your hands by always rinsing and patting dry your hands after contact with cleaning products
- Use rubber gloves when cleaning dishes or when doing gardening
- Consider using creams with menthol or camphor to help relieve itchy skin

- Avoid body products that can be rough on your skin (e.g. bath scrubs)
- Avoid placing heat or cold packs, or bandages over radiation treatment area. Use cool, wet cloth to soothe the area if needed
- Avoid applying creams within 4 hours of radiation therapy

When to call your cancer care team

Please inform your doctor or nurse if you notice or experience any of the following:

- Signs of an allergic reaction: hives accompanied by swelling, difficulty breathing or chest pain. You should seek medical attention immediately if these occur
- Signs of infection: fever of > 38°C, chills or rigors
- Worsening skin changes or rash
- Uncomfortable symptoms affecting daily activities or sleep (e.g. itch, pain)
- Open sores or blistering over skin

If you have any questions regarding the above information, please call Cancer Helpline at **+65 6225 5655** or approach your doctor or nurse for further details.

The above contents are made available as part of TEMASEK FOUNDATION-ACCESS (Accessible Cancer Care to Enable Support for Survivors) PROGRAMME, a holistic care programme to support cancer patients during their care and recovery journey.

The contents have been approved by the Cancer Education Information Service, National Cancer Centre Singapore (NCCS), for people with cancer and their families and caregivers. However, this information serves only as a guide and should not be used as a substitute for medical diagnosis, treatment or advice. For specific medical conditions, please seek expert medical advice from your healthcare team.

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