

HAND-FOOT SYNDROME

Also called Palmar-Plantar Erythrodysesthesia (PPE), hand-foot syndrome is a side effect that can occur with several types of chemotherapy or biologic therapy drugs used to treat cancer. For example, Capecitabine (Xeloda®), 5-Flurouracil (5FU), doxorubicin liposomal (Doxil®), and high-dose Interleukin-2 can cause this skin reaction for some patients. Following administration of these treatments, small amounts of drug leak out of very small blood vessels called capillaries in the palms of the hands and soles of the feet.

Exposure of your hands and feet to heat as well as friction on your palms and soles increases the amount of drug in the capillaries and increases the amount of drug leakage. This leakage of drug results in redness, tenderness, and possibly peeling of the palms and soles. The redness, also known as PPE, looks like sunburn. The areas affected can become dry and peel, and have numbness or tingling. Hand-foot syndrome can be uncomfortable and can interfere with your ability to carry out normal activities.

PREVENTION OF HAND-FOOT SYNDROME

Prevention is very important in trying to reduce the development of hand-foot syndrome. Actions taken to prevent hand-foot syndrome will help reduce the severity of symptoms should they develop.

- This involves modifying some of your normal daily activities to reduce friction and heat exposure to your hands and feet for a period of time following treatment (approximately one week after IV medication, and as much as possible during the time you are taking oral (by mouth) medications.
 - Avoid long exposure of hands and feet to hot water such as washing dishes, long showers or baths.
 - Short showers in tepid water will reduce exposure of the soles of your feet to the drug.
 - Dishwashing gloves should not be worn, as the rubber will hold heat against your palms.
 - Avoid increased pressure on the soles of the feet or palms of hands.
 - · No jogging, aerobics, power walking, jumping avoid long walks
 - Avoid using garden tools, household tools such as screwdrivers, and other tasks where you are squeezing your hand on a hard surface.
 - Using knives to chop food may also cause excessive pressure and friction on your palms.

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RELIEF

Cooling Procedures

Cold may provide temporary relief for pain and tenderness caused by hand-foot syndrome. Placing the palms of your hands or bottoms of your feet on an ice pack or a bag of frozen

peas may be very comforting. Alternate on and off for 15-20 minutes at a time.



Creams

It is important to

keep these areas moisturized. Emollients such as Cetaphil, Cerave, Vanicream, and Bag Balm[®] provide excellent moisturizing to your hands and feet.

Pain relief

Over the counter pain relievers such as acetaminophen (Tylenol®) may be helpful to relieve discomfort associated with hand-foot syndrome. Check with your health care team.

Vitamins

Taking Vitamin B6 (pyridoxine) may be beneficial to preventing and treating PPE and should be discussed with your health care team.

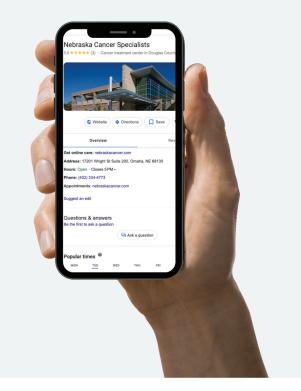
Medication or treatment changes may be prescribed by your doctor

Chemotherapy treatments may need to be interrupted or the dose adjusted to prevent worsening of hand-foot syndrome.



WHEN TO CALL

If you notice that your palms or soles become red or tender. This most often occurs before any peeling, and recommendations for relief of discomfort can be given. If you are on chemotherapy pills, you may be asked to hold treatment, or need your dose adjusted to prevent worsening of symptoms.



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