

MEDICAL INFORMATION FOR PATIENTS AND CAREGIVERS

To learn more about MCC, visit our US Patient & Caregiver Medical Website by scanning this QR code with your phone or tablet



Merkel Cell Carcinoma Topics



What is Merkel Cell Carcinoma?

Merkel cell carcinoma (MCC) is a rare, aggressive form of skin cancer with a high risk for returning and spreading, often within two to three years after initial diagnosis.^{1,2}





How to Spot MCC?

MCCs can progress rapidly¹ and become more difficult to treat; it's crucial to understand your risks and warning signs.





Stages and Survival

Determining the size of the tumor and whether it has spread (the stage) is crucial to predicting a patient's potential outcome and the most appropriate treatment options.



Causes and Prevention

MCC doesn't appear to be inherited, and the DNA changes that cause it are sometimes due to factors like sun exposure and Merkel cell polyomavirus (MCPyV) infection among others.³



Diagnostic Tests



MCC is identified due to visible signs or symptoms. If there is an area of concern, the doctor will conduct tests to determine if it's cancer or another skin issue.





Treatment Options

A patient's treatment options are largely dependent on whether the cancer has spread to other parts of the body.





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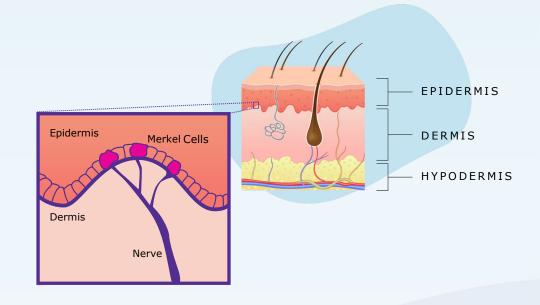
What are Merkel Cells and MCC?

Merkel cells

Merkel cells are in the top part of your skin, called the epidermis. These cells are very close to the nerve endings that help you feel touch.¹

Merkel cell carcinoma

- Merkel cell carcinoma (MCC) is a very rare type of skin cancer, in which the Merkel cells grow out of control and form a tumor.¹
- MCC is different from more common skin cancers, such as melanoma, squamous cell carcinoma, and basal cell carcinoma, which arise from other types of cells in the skin.²
- Merkel cell carcinoma usually starts in skin areas that get a lot of sun, particularly the head and neck, as well as the arms, legs, and trunk.¹





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Distribution of MCC +



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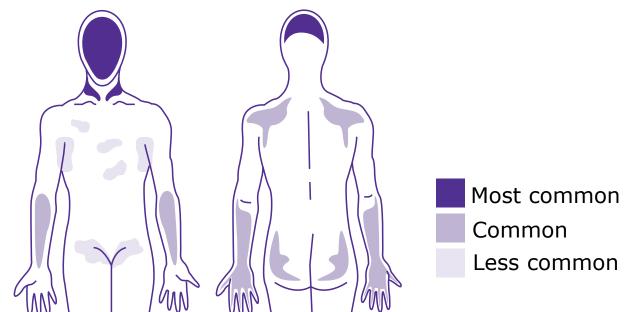
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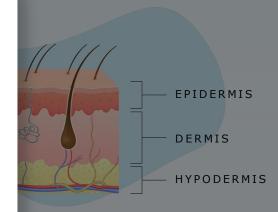
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Heath M, et al. J Am Acad Dermatol. 2008;58(3):375-381

MERKEL CELL CARCINOMA

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How to Spot Merkel Cell Carcinoma?



Location

Skin areas that get a lot of sun. ~50% on the head and neck, but can occur anywhere on the body^{1,2}

Appearance

Painless, firm, shiny or pearly bump^{1,3,4}

Size

Dimensions vary, but the average size at detection is 3/4 inch¹

Color

Skin-colored, red, purple or bluish-red¹

Warning signs²:

The acronym **AEIOU** is often used to summarize the classical clinical characteristics of MCC:

Asymptomatic

Expanding rapidly (≤3 months)

Immune suppression

Older than 50 years of age

UV exposure on fair skin



Stages and Survival^{1,2}



Localized



Commonly known as Stage I and II

Stage I: The cancer is smaller than 2 cm and has not spread to nearby areas

Stage II: Cancer is more than 2 cm and has spread into nearby tissues

Regional

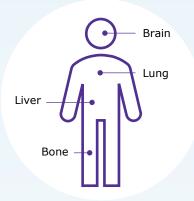


Commonly known as Stage III

Cancer can be of any size and has spread into nearby tissues and near or distant lymph node.

5-year relative survival +

Distant



Commonly known as Stage IV

Cancer can be of any size and have spread into tissues, distant lymph nodes or organs, such as the liver, lung, bone, or brain.



Stages and Survival^{1,2}



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5-year relative survival

The percentage of people who are alive five years after their diagnosis or start of treatment for their disease.1

Stages	5-year relative survival rate ²
Localized (Stage 1 and 2)	75%
Regional (Stage 3)	61%
Distant (Stage 4)	24%
All stages combined	65%

1. NCI dictionaries. Dictionary of Cancer Terms. Five-year survival rate. Accessed April 4, 2025. https://www.cancer.gov/publications/dictionaries/cancer-terms/def/five-year-survivalrate

2. ACS. Survival Rates for Merkel Cell Carcinoma. Updated, January 10, 2025. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/detection-diagnosisstaging/survival-rates.html Accessed March 3,2025.

IV

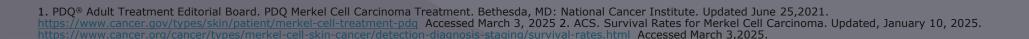
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MERKEL CELL



Causes and Prevention

Causes and risk factors^{1,2}



Age

Most Americans aged ≥50 are at risk with most diagnosed at ≥ 70 years

Light skin

More than

9 of 10 Americans
diagnosed with
MCC are white

History of skin cancers

Previous melanoma **triples** the risk for MCC³



Sex

Likelihood of MCC is ~2X higher in men than in women⁴

UV light exposure

- 1. Medical conditions
- 2. Medications

Weakened

immune system

Naturally from the sun

 Artificial light sources like tanning beds Merkel cell polyomavirus (MCPyV) infection +

Prevention¹

- Use sunscreen with SPF 60 every day, even when you're inside. Put on more sunscreen every two hours, especially when you're outside.
- Don't use tanning beds or sunlamps.
- Stay in the shade when you're outside.
- Wear tightly woven clothes with long sleeves, a wide hat and large sunglasses when outdoors.

UV: Ultraviolet; SPF: Sun Protection Factor

1. Cleveland clinic. Merkel cell carcinoma. Updated April 15, 2022. https://my.clevelandclinic.org/health/diseases/17971-merkel-cell-carcinoma. Accessed March 4 2025. 2. ACS. Key Statistics for Merkel Cell Carcinoma. Updated January 10, 2025. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/about/key-statistics.html 3. Becker JC, et al. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/causes-risks-prevention/risk-factors.html Accessed April 24, 2025.

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Causes and Prevention

Merkel cell polyomavirus (MCPyV) infection



About **80%**

of Merkel cell carcinoma cases in the U.S. are caused by MCPyV infection.¹

MCPyV is a common virus;

~67-90%

of healthy people have been infected by it.²

MCPyV infection is Commonly asymptomatic

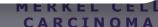
in the general population.³

The virus often

infects the skin,

though it can also infect other organs.^{2,3}

1. Krump NA, Front Microbiol. 2021;12:739695. 2. Silling S, et al. Cancers (Basel). 2022;14(24):6176. 3. Spurgeon ME, Virology. 2013;435(1):118-130.





Diagnostic Test Options



For initial assessment

Physical examination¹



The area(s) in question will be checked. Nearby lymph nodes will be examined for swelling.

If cancer is suspected, a dermatologist will use a special magnifying lens and light to look more closely at the spots in a test called **dermoscopy**.

For diagnosis

Biopsies¹



Biopsies are surgical procedures that remove cell samples from a suspicious area of the **skin** (and sometimes nearby **lymph nodes**).

The samples are examined by pathologists using microscopes and special dyes. This helps identify the types of cells and whether they are cancerous.

More information on Biopsies +

For assessment of potential spread

Imaging tests¹



CT scan: Uses X-ray technology to create 3D views of organs.^{1,2}

MRI scan: Uses magnetic fields and radio waves to make detailed pictures of areas inside the body.^{1,2}

PET scan: Creates detailed 3D pictures of areas inside the body where a radioactive substance has been taken up.^{1,2}

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Diagnostic Test Ontions



Diagnostic Test Options: Biopsies

Skin biopsy

Incisional biopsy

Removal of portion of a tumor.

- Deep shave (tangential) biopsy
 A surgical blade is used to scrape the top layers of the abnormal skin to test for cancer.
- Punch biopsy
 A specialized tool is used to remove a deeper sample of skin, where all the skin layers are taken.

Excisional biopsy

Removal of entire tumor.

1. ACS. Tests for Merkel Cell Carcinoma. Updated January 10, 2025. Accessed March 5, 2025. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/detection-diagnosis-staging/how-diagnosed.html

Sentinel lymph node biopsy (SLNB)

Procedure to test if cancer has spread beyond the original tumor by removing small lymph nodes that are nearby the tumor (sentinel nodes) and test them for cancer cells.

- Needle biopsy In a core biopsy, a wide needle is used to remove a lymph node sample for examination under a microscope.
- Fine needle aspiration (FNA) biopsy uses a syringe with a very thin and hollow needle to remove cells.
- Surgical (excisional) lymph node biopsy
 The doctor takes out the entire lymph node through
 a small cut (incision) in the skin.

More information on Biopsies +

CARCINOMA



Treatment Options



Surgery¹:

Wide excision: A surgery that involves removing the entire area that's suspected to be cancerous, along with some normal, healthy tissue (called margins) to be sure all the cancer is removed.



Amputation: In rare cases, if the cancer is on a finger or toe, part or all of that finger/toe might need to be removed depending on the tumor.

Mohs micrographic surgery: This is a special surgery that removes thin layers of the affected area to save as much healthy skin as possible. It's often done for cancers on the face or ears.

Lymph node dissection: A procedure in which the surgeon removes all the lymph nodes near the tumor.



Radiation therapy:

uses beams of intense energy to kill cancer cells^{2,3}



Systemic therapy:

uses drugs that circulate through the body to destroy cancer cells and prevent tumor growth³



Immunotherapy:

treatment of disease by using the immune system²