

BAVENCIO® (avelumab) Metastatic MCC Overview Deck

Please see the full BAVENCIO[®] (avelumab) US Prescribing Information available at <u>https://www.emdserono.com/us-en/pi/bavencio-pi.pdf</u>

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Important Notices

- Avelumab has been approved by the FDA and is under investigation for the treatment of various diseases. Efficacy and safety of avelumab are still under investigation for various indications. Regulatory approval is dependent on the completion of the study programs and review by the FDA. Clinical trial information is available at <u>www.clinicaltrials.gov</u>.
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MCC Disease Overview

MCC Treatment Landscape

Indication and ISI

JAVELIN MERKEL 200 Trial

JAVELIN MERKEL 200 (PART A) MCC – 2L

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JAVELIN MERKEL 200 MCC Pooled Safety Data per Prescribing Information



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MCC Disease Overview



Clinical Presentation

ANATOMICAL DISTRIBUTION OF MCC AT PRESENTATION¹



CLINICAL CHARACTERISTICS OF MCC¹

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

Asymptomatic

Expanding rapidly

Immune suppression

Older than 50 years of age

 ${\rm UV}$ exposure on fair skin

- MCC is an ultra-rare neuroendocrine, cutaneous malignancy that occurs more frequently in elderly individuals and has a poor prognosis²
- Patients present with a firm, painless, rapidly enlarging, red-violet, cutaneous, dome-shaped tumor nodule²
- MCC nodules are often located in sun-exposed areas of the head and neck or upper extremities³
- MCC commonly occurs on the face and neck (40-60%), followed by the trunk (23%), and the extremities (10-20%)⁴

*MCC distribution evaluated in 195 patients: 168 patients with primary skin lesions and 27 patients with nodal involvement and no known primary lesions.

MCC, Merkel cell carcinoma. 1. Heath M et al. J Am Acad Dermatol. 2018;58(3):375–81; 2. Dellambra E et al. Biomedicines. 2021;9(7):718–41; 3. Smith VA et al. Laryngoscope. 2012;122(6):1283–90; 4. Medina-Franco H et al. Ann Surg Oncol. 2001;8(3):204–8.





TNM Classification: MCC Is Classified in Stages I to IV

The **consensus staging system** for MCC was introduced by the AJCC in 2010¹ and updated in 2016 to help clinicians better stratify patients into groups based on their predicted survival, emphasizing the difference between clinically and pathologically determined staging²



Clinical stage groups (cTNM)

Stage	т	Ν	М
0	Tis	N0	MO
I	T1	NO	MO
IIA	T2-3	N0	MO
IIB	T4	NO	MO
	T0-4	N1-3	MO
IV	T0-4	Any N	M1

Pathological stage groups (pTNM)

Stage	т	Ν	М
0	Tis	NO	MO
Ι	T1	NO	MO
IIA	T2-3	N0	MO
IIB	Τ4	N0	M0
IIIA	T1-4 T0	N1a(sn) or N1a N1b	M0 M0
IIIB	T1-4	N1b-3	MO
IV	T0-4	Any N	M1

TNM Classification: MCC Is Classified in Stages I to IV, cont'd

The consensus staging system for MCC is classified by tumor, node, and metastasis criteria

т		Ν	М
Tx, primary tumor cannot be assessed	cNx, regional lymph nodes cannot be clinically assessed (eg, previously removed for another reason, body habitus)	pNx, regional lymph nodes cannot be assessed (eg, previously removed for another reason) or not removed for pathological evaluation	M0, no distant metastasis
T0, no primary tumor	cN0, no regional lymph node metastasis by clinical or radiological evaluation	pN0, no regional lymph node metastasis detected on pathological evaluation	M1, distant metastasis
Tis, in situ primary tumor	cN1, clinically detected regional nodal metastasis	pN1a(sn), clinically occult nodal metastasis identified only by sentinel lymph node biopsy	M1a, metastases to distant skin, distant subcutaneous tissue, or distant lymph nodes
T1, primary tumor ≤2 cm	cN2, in-transit metastasis without lymph node metastasis	pN1a, clinically occult regional lymph node metastasis following lymph node dissection	M1b, metastasis to lung
T2, primary tumor >2 cm but ≤5 cm	cN3, in-transit metastasis with lymph node metastasis	pN1b, clinically or radiologically detected regional lymph node metastasis, pathologically confirmed	M1c, metastasis to all other visceral sites
T3, primary tumor >5 cm		pN2, in-transit metastasis without lymph node metastasis	
T4, primary tumor invades fascia, muscle, cartilage, or bone		pN3, in-transit metastasis with lymph node metastasis	

AJCC, American Joint Commission on Cancer; c, clinical; M, metastasis; MCC, Merkel cell carcinoma; N, node; p, pathologic; T, tumor. Harms KL et al. Ann Surg Oncol. 2016;23(11):3564–71.



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Stage at Diagnosis and Sites of Metastasis

MCC

Percentage of patients with MCC per clinical stage, as presented at diagnosis^{1,*}

Patients, %
53.5
21.4
13.8
3.1
8.2

- MCC develops at an exponential rate on chronically sun-damaged skin, with a doubling time of 5 days to 12 days^{2,3}
- MCC grows in an infiltrating manner in the initial stages of disease, and satellite metastases may occur early in development of the disease⁴

Metastatic MCC

Common metastatic sites of MCC^{5,6}

Metastatic site	Patients, %
Lymph nodes	60
Skin	30
Lung	23
CNS	18
Bone	15

- Progression to metastatic disease is a frequent phenomena post locally advanced disease and typically observed within the first 2 years following diagnosis⁷
- Recurrence in MCC is high, particularly in patients with a positive SLNB⁸

*Based on 159 patients with a median age of 75 years treated for MCC between 2002 and 2020 at a single institution.

CNS, central nervous system; MCC, Merkel cell carcinoma; SLNB, sentinel lymph node biopsy.

1. Esposito A et al. Ann Surg Oncol. 2022;29(1):415–24; 2. Poulsen M. Drugs Aging 2005;22(3):219–29; 3. Swann MH, Yoon J. Semin Oncol 2007;34(1):51–6; 4. Becker JC. Ann Oncol 2010;21(suppl 7):vii81–5; 5. Medina-Franco H et al. Ann Surg Oncol 2001;8(3):204–8; 6. Voog E et al. Cancer 1999;85(12):2589–95; 7. Allen PJ et al. J Clin Oncol 2005;23(10):2300–9; 8. Gupta SG et al. Arch Dermatol 2006;142(6):685–90.



Epidemiology





MCC is a very rare form of skin cancer with an incidence rate of **0.7 cases per 100,000 PYs** in the US in 2013, corresponding to **2488 cases per year**¹ The number of reported MCC cases is rapidly growing, with an increase of 95% from 2000 to 2013 according to a study of 6,600 patients with MCC registered in the SEER database¹ Due to aging of the Baby Boomer generation, US MCC incident cases are predicted to climb to 2835 cases per year in 2020 and 3284 cases per year in 2025¹



MCC incidence increases exponentially with age, from 0.1 to 1.0 to 9.8 (per 100,000 PYs) among age groups 40-44 years, 60-64 years, and \geq 85 years, respectively¹

 Consequently, MCC is primarily a disease of the elderly with a median age of 76 years (1986 to 2004)²



The incidence of MCC

is higher in men than

in women as shown in

a study of 3,870 MCC

cases identified in the

(0.41 [95% CI: 0.38-

between 1973 and 2006

0.43] per 100,000 PYs in men vs. 0.18 [95% CI:

0.17–0.19] per 100,000

PYs in women; p<0.05)³

SEER database

Patients with MCC are mostly Caucasian (96.4%) with African American (1.2%) and Asian (0.8%) descent making up a very small portion⁴

MCC, Merkel cell carcinoma; PY, person-year; SEER, Surveillance, Epidemiology, and End Results Program; US, United States.

1. Paulson KG et al. J Am Acad Dermatol 2018;78(3):457–63.e2; 2. Lemos BD et al. J Am Acad Dermatol 2010;63(5):751–61; 3 Albores-Saavedra J et al. J Cutan Pathol 2010;37(1):20–7; 4. Harms KL et al. Ann Surg Oncol. 2016;23(11):3564–71.





5-Year Survival by Stage at Diagnosis

- MCC exhibits aggressive clinical features and is associated with a poorer prognosis and lower survival compared with other aggressive skin malignancies, such as melanoma¹⁻⁴
- According to an analysis of data from the SEER database between 2012 and 2018, tumor stage significantly affects survival, with higher mortality rates with more advanced disease⁵



Five-year relative survival by MCC stage at diagnosis, 2012-2018⁵

MCC, Merkel cell carcinoma; SEER, Surveillance, Epidemiology, and End Results Program.

1. Saini AT, Miles BA. Onco Targets Ther 2015;8:2157–67; 2. Chen MM et al. JAMA Otolaryngol Head Neck Surg 2015;141(2):137–41; 3. Smith VA et al. Laryngoscope 2012;122(6):1283–90; 4. Grabowski J et al. Clin Med Oncol 2008;2:327–33; 5. American Cancer Society. Survival Rates for Merkel Cell Carcinoma. Accessed November 29, 2023. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/detection-diagnosis-staging/survival-rates.html



Etiology

The etiology of MCC is likely multifactorial, with immunosuppression, UV-induced skin damage, and viral factors contributing to its development¹



- **MCPyV** infection
- MCPyV, a DNA virus, is detected in approximately 80% of MCC cases²
- Likely to be part of the normal skin flora, MCPyV DNA is nearly ubiquitous in the normal skin of healthy individuals³
- Infection likely occurs during childhood, but remains largely asymptomatic in adults^{4,5}
- The early gene region of MCPyV encodes ST and LT, both of which are independently required for modulation of the host cell and viral replication⁶
- The oncogenic potential of MCPyV is thought only to occur upon clonal integration into the host genome; spontaneously or through exogenous mutations in the 3' end of the LT^{3,7}
- ST appears to be the major transforming oncogene in MCC⁷



Immunosuppression

- A key factor in the development of MCC, which appears to be associated with a worse prognosis^{8,9}
- The relative risk for MCC is approximately 13-fold higher in HIV and about 5-fold higher in solid organ transplantation recipients than the general population⁹



- UV-B rays induce mutations in the tumor suppressor p53 and Ha-ras genes, increasing the risk of cancer⁸
- The UV-B index is positively associated with MCC incidence⁸
- MCPyV-negative tumors exhibit a high mutation burden associated with UV-induced DNA damage^{10,11}

HIV, human immunodeficiency virus; LT, large T antigen; MCC, Merkel cell carcinoma; MCPyV, Merkel cell polyomavirus; ST, small T antigen; UV, ultraviolet.

1. Saini AT, Miles BA. Onco Targets Ther. 2015;8:2157-67; 2. Feng H et al. Science. 2008;319(5866):1096-100; 3. Tothill R et al. Am Soc Clin Oncol Educ Book. 2015; e519-26; 4. Martel-Jantin C et al. J Clin Virol 2013;58(1):288–91; 5. Tolstov YL et al. Emerg Infect Dis 2011;17(8):1371–80; 6. Liu W, You J. Annu Rev Virol 2020; 7(1): 289-307; 7. Arora R et al. Curr Opin Virol 2012;2(4):489–98; 8. Ma JE, Brewer JD. Cancers (Basel) 2014;6(3):1328-50; 9. Desch L, Kunstfeld R. J Skin Cancer 2013;2013:327150; 10. Wong SQ et al. Cancer Res 2015;75(24):5228-34; 11. Harms PW et al. Cancer Res 2015;75(18):3720-7.





Select Risk Factors Influencing Clinical Outcome

TUMOR STAGE

Patients with advanced disease (stage III and stage IV) have an increased risk of MCC-specific mortality compared with patients with stage I tumors^{1,2}

TUMOR HISTOLOGY & LOCATION

Lymphovascular invasion, tumor growth pattern, and lymph node number have all been shown to affect disease outcome^{1,3-5}

BIOMARKERS

PD-L1, p63, VEGFR-2, MMP, and KIT are predictive of a worse disease prognosis in patients with MCC^{2,6-11}

HOST FACTORS

Male sex, advanced age, CD8+ infiltration, vitamin D deficiency, and immunosuppression are prognostic host factors for MCC¹²⁻¹⁷

MCPyV INFECTION

MCPyV-negative MCC may represent a more aggressive subtype and may warrant closer clinical follow-up¹⁸

SECONDARY MALIGNANCIES

Patients diagnosed with MCC are at risk of developing secondary cancers¹⁹

MCC, Merkel cell carcinoma; MCPyV, Merkel cell polyomavirus; MMP, matrix metalloproteinase; PD-L1, programmed death-ligand 1; VEGFR-2, vascular endothelial growth factor receptor-2. 1. Andea AA et al. Cancer. 2008;113(9):2549–58; 2. Stetsenko GY et al. Am J Clin Pathol. 2013;140(6):838–44; 3. lyer JG et al. J Am Acad Dermatol. 2014;70(4):637–43; 4. Ko JS et al. Mod Pathol. 2016;29(2):122–30; 5. Henderson SA et al. J Cutan Pathol. 2014;41(11):846–52; 6. Lipson EJ et al. Cancer Immunol Res. 2013;1(1):54–63; 7. Asioli S et al. Cancer. 2007;110(3):640–47; 8. Asioli S et al. Mod Pathol. 2011;24(11):1451–61; 9. Kukko H et al. Anticancer Res. 2007;27(4C):2587–89; 10. Fernandez-Figueras MT et al. Mod Pathol. 2007;20(1):90–101; 11. Andea AA et al. Hum Pathol. 2010;41(10):1405–12; 12. Chen MM et al. JAMA Otolaryngol Head Neck Surg. 2015;141(2):137–41; 13. Smith VA et al. Laryngoscope. 2012;122(6):1283–90; 14. Paulson KG et al. Am J Clin Pathol. 2014;142(4):452–8; 15. Asgari MM et al. JAMA Dermatol. 2014;150(7):716–23; 16. Paulson KG et al. J Invest Dermatol. 2013;13(3):642–46; 17. Schadendorf et al. Eur J Cancer. 2017;(71):53-69; 18. Shantha E, Nghiem P. Merkel cell carcinoma multicenter interest group: Summary of 10th Annual Meeting. 2015; 19. Saxena A et al. J Skin Cancer. 2014;2014:184245.



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Causal Link Between Merkel Cell Polyomavirus (MCPyV) and MCC Pathogenesis^{1,2}

- As immunosuppressed patients have an increased risk for MCC, it is highly likely that the immune system plays a central role in preventing and controlling MCC¹
- MCPyV oncoproteins are a major contributor to MCC pathogenesis²
 - Expressed in 80% of MCC tumors²
 - In the other 20%, immune responses to unknown antigens are implicated¹
- Immunomodulation (including reduction of immunosuppression) could therefore result in regression of MCC¹
 - Evidence suggests that high TIL counts and immune transcripts are associated with better prognosis¹





Role of the Immune System in MCC Pathogenesis

- Immunosuppressed individuals have an estimated 15-fold higher risk of MCC and earlier onset than the general population^{1,2}
 - However, immunosuppressed individuals account for only ~10% of MCC cases²
- Most patients newly diagnosed with MCC do not have a history of immune dysfunction, suggesting that tumor cells are escaping immune surveillance^{1,3}
- Current evidence suggests that MCC develops only after a series of mutational events and loss of cellmediated immune surveillance⁴
- Local tumor-specific and potentially MCPyV-specific immune responses drive MCC tumor PD-L1 expression – similar to previous observations in melanoma and head and neck squamous cell carcinomas⁵
 - Geographic association of immune infiltrates with PD-L1⁺ MCC tumor cells⁵
 - High PD-L1 expression among specimens with high TIL intensities⁵
 - Significant associations between presence of MCPyV DNA, a brisk inflammatory response, and tumor cell PD-L1 expression (MCPyV⁻ tumor cells have been shown to be uniformly PD-L1⁻)⁵

MCC, Merkel cell carcinoma; MCPyV, Merkel cell polyomavirus; PD-L1, programmed death ligand 1; TIL, tumor-infiltrating lymphocytes.

1. Triozzi PL, Fernandez AP. Cancers 2013;5:234–54; 2. Ma JE, Brewer JD. Cancers 2014;6:1328–50; 3. Rabinowits G. Cancers 2014;6:1180–94; 4. Bhatia S et al. Curr Oncol Rep 2011;13:488–97; 5. Lipson EJ et al. Cancer Immunol Res 2013;1:54–63.







MCC Treatment Landscape



MCC Treatment Landscape

- Treatment is dependent on tumor staging¹
- 50% of patients without distant metastasis at presentation may be cured with surgery ± radiotherapy²
- The remaining 50% are likely to experience disease recurrence resulting in fatal metastatic disease, typically within 1-2 years²
- For patients with metastatic disease at diagnosis, 5-year relative survival rate is 24%³
- Initial response rate with chemotherapy is 53-76%⁴
 - Responses are sustained for a range of 4-15 months⁴
- In the last 5 years, immunotherapies have become a treatment option in patients with metastatic MCC⁵

MCC, Merkel cell carcinoma.

1. American Cancer Society. Treating Merkel Cell Carcinoma Based on the Extent of the Cancer. Accessed May 31, 2022. https://www.cancer.org/cancer/merkel-cell-skin-cancer/treating/commontreatments-by-extent.html; 2. Rabinowits G. Cancers. 2014;6:1180–94; 3. American Cancer Society. Survival Rates for Merkel Cell Carcinoma. Accessed November 29, 2023. https://www.cancer.org/cancer/types/merkel-cell-skin-cancer/detection-diagnosis-staging/survival-rates.html; 4. Villani A et al. Dermatol Ther (Heidelb) 2019;9:209–22; 5. Shalhout SZ et al. Curr Oncol Rep. 2021;23:125.







Indication and Important Safety Information





Indication

Metastatic Merkel cell carcinoma

BAVENCIO® (avelumab) is indicated for the treatment of adults and pediatric patients 12 years and older with metastatic Merkel cell carcinoma (MCC).



Important Safety Information

Avelumab can cause **severe and fatal immune-mediated adverse reactions** in any organ system or tissue and at any time after starting treatment with a PD-1/PD-L1 blocking antibody, including after discontinuation of treatment.

Early identification and management of immune-mediated adverse reactions are essential to ensure safe use of PD-1/PD-L1 blocking antibodies. Monitor patients closely for symptoms and signs that may be clinical manifestations of underlying immune-mediated adverse reactions. Evaluate liver enzymes, creatinine, and thyroid function at baseline and periodically during treatment. In cases of suspected immune-mediated adverse reactions, initiate appropriate workup to exclude alternative etiologies, including infection. Institute medical management promptly, including specialty consultation as appropriate.

No dose reduction for avelumab is recommended. For immune-mediated adverse reactions, withhold or permanently discontinue avelumab depending on severity. In general, withhold avelumab for severe (Grade 3) immune-mediated adverse reactions. Permanently discontinue avelumab for life-threatening (Grade 4) immune-mediated adverse reactions, recurrent severe (Grade 3) immune-mediated reactions that require systemic immunosuppressive treatment, or an inability to reduce corticosteroid dose to 10 mg or less of prednisone or equivalent per day within 12 weeks of initiating corticosteroids. In general, if avelumab requires interruption or discontinuation, administer systemic corticosteroid therapy (1 to 2 mg/kg/day prednisone or equivalent) until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month. Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy. Toxicity management guidelines for adverse reactions that do not necessarily require systemic corticosteroids (eg, endocrinopathies and dermatologic reactions) are discussed in subsequent sections.

Avelumab can cause **immune-mediated pneumonitis**. Withhold avelumab for Grade 2, and permanently discontinue for Grade 3 or Grade 4 pneumonitis. Immune-mediated pneumonitis occurred in 1.1% (21/1854) of patients, including fatal (0.1%), Grade 4 (0.1%), Grade 3 (0.3%), and Grade 2 (0.6%) adverse reactions. Systemic corticosteroids were required in all (21/21) patients with pneumonitis.



Avelumab can cause **immune-mediated colitis**. The primary component of immune-mediated colitis consisted of diarrhea. Cytomegalovirus infection/reactivation has been reported in patients with corticosteroid-refractory immune-mediated colitis. In cases of corticosteroid-refractory colitis, consider repeating infectious workup to exclude alternative etiologies. Withhold avelumab for Grade 2 or Grade 3, and permanently discontinue for Grade 4 colitis. Immune-mediated colitis occurred in 1.5% (27/1854) of patients, including Grade 3 (0.4%) and Grade 2 (0.8%) adverse reactions. Systemic corticosteroids were required in all (27/27) patients with colitis.

Avelumab can cause **hepatotoxicity and immune-mediated hepatitis**. Withhold or permanently discontinue avelumab based on tumor involvement of the liver and severity of aspartate aminotransferase (AST), alanine aminotransferase (ALT), or total bilirubin elevation. Immune-mediated hepatitis occurred with avelumab as a single agent in 1.1% (20/1854) of patients, including fatal (0.1%), Grade 3 (0.8%), and Grade 2 (0.1%) adverse reactions. Systemic corticosteroids were required in all (20/20) patients with hepatitis.

Avelumab can cause primary or secondary **immune-mediated adrenal insufficiency**. For Grade 2 or higher adrenal insufficiency, initiate symptomatic treatment, including hormone replacement, as clinically indicated. Withhold avelumab for Grade 3 or Grade 4 endocrinopathies until clinically stable or permanently discontinue depending on severity. Immune-mediated adrenal insufficiency occurred in 0.6% (11/1854) of patients, including Grade 3 (0.1%) and Grade 2 (0.4%) adverse reactions. Systemic corticosteroids were required in all (11/11) patients with adrenal insufficiency.

Avelumab can cause **immune-mediated hypophysitis**. Hypophysitis can present with acute symptoms associated with mass effect such as headache, photophobia, or visual field defects. Hypophysitis can cause hypopituitarism. Initiate hormone replacement, as clinically indicated. Withhold avelumab for Grade 3 or Grade 4 endocrinopathies until clinically stable or permanently discontinue depending on severity. Immune-mediated pituitary disorders occurred in 0.1% (1/1854) of patients, which was a Grade 2 (0.1%) adverse reaction.



Avelumab can cause **immune-mediated thyroid disorders**. Thyroiditis can present with or without endocrinopathy. Hypothyroidism can follow hyperthyroidism. Initiate hormone replacement for hypothyroidism or institute medical management of hyperthyroidism, as clinically indicated. Withhold avelumab for Grade 3 or Grade 4 endocrinopathies until clinically stable or permanently discontinue depending on severity. Thyroiditis occurred in 0.2% (4/1854) of patients, including Grade 2 (0.1%) adverse reactions. Hyperthyroidism occurred in 0.4% (8/1854) of patients, including Grade 2 (0.1%) adverse required in 25% (2/8) of patients with hyperthyroidism. Hypothyroidism occurred in 5% (97/1854) of patients, including Grade 3 (0.2%) and Grade 2 (3.6%) adverse reactions. Systemic corticosteroids were required in 6% (6/97) of patients with hypothyroidism.

Avelumab can cause **immune-mediated type I diabetes mellitus**, which can present with diabetic ketoacidosis. Monitor patients for hyperglycemia or other signs and symptoms of diabetes. Initiate treatment with insulin as clinically indicated. Withhold avelumab for Grade 3 or Grade 4 endocrinopathies until clinically stable or permanently discontinue depending on severity. Immune-mediated type I diabetes mellitus occurred in 0.2% (3/1854) of patients, including Grade 3 (0.2%) adverse reactions.

Avelumab can cause **immune-mediated nephritis with renal dysfunction**. Withhold avelumab for Grade 2 or Grade 3, and permanently discontinue for Grade 4 increased blood creatinine. Immune-mediated nephritis with renal dysfunction occurred in 0.1% (2/1854) of patients, including Grade 3 (0.1%) and Grade 2 (0.1%) adverse reaction. Systemic corticosteroids were required in all (2/2) patients with nephritis with renal dysfunction.

Avelumab can cause **immune-mediated dermatologic adverse reactions**, including rash or dermatitis. Exfoliative dermatitis including Stevens Johnson Syndrome (SJS), drug rash with eosinophilia and systemic symptoms (DRESS), and toxic epidermal necrolysis (TEN), has occurred with PD-1/PD-L1 blocking antibodies. Topical emollients and/or topical corticosteroids may be adequate to treat mild to moderate non-exfoliative rashes. Withhold avelumab for suspected and permanently discontinue for confirmed SJS, TEN, or DRESS. Immune-mediated dermatologic adverse reactions occurred in 6% (108/1854) of patients, including Grade 3 (0.1%) and Grade 2 (1.9%) adverse reactions. Systemic corticosteroids were required in 25% (27/108) of patients with dermatologic adverse reactions.



Avelumab can result in **other immune-mediated adverse reactions**. Other clinically significant immune-mediated adverse reactions occurred at an incidence of <1% in patients who received avelumab or were reported with the use of other PD-1/PD-L1 blocking antibodies. For **myocarditis**, permanently discontinue avelumab for Grade 2, Grade 3, or Grade 4. For **neurological toxicities**, withhold avelumab for Grade 2 and permanently discontinue for Grade 3 or Grade 4.

Avelumab can cause severe or life-threatening **infusion-related reactions**. Premedicate patients with an antihistamine and acetaminophen prior to the first 4 infusions and for subsequent infusions based upon clinical judgment and presence/severity of prior infusion reactions. Monitor patients for signs and symptoms of infusion-related reactions, including pyrexia, chills, flushing, hypotension, dyspnea, wheezing, back pain, abdominal pain, and urticaria. Interrupt or slow the rate of infusion for Grade 1 or Grade 2 infusion-related reactions. Permanently discontinue avelumab for Grade 3 or Grade 4 infusion-related reactions. Infusion-related reactions occurred in 26% of patients, including three (0.2%) Grade 4 and ten (0.5%) Grade 3 infusion-related reactions. Eleven (85%) of the 13 patients with Grade \geq 3 reactions were treated with intravenous corticosteroids.

Fatal and other serious **complications of allogeneic hematopoietic stem cell transplantation (HSCT)** can occur in patients who receive HSCT before or after being treated with a PD-1/PD-L1 blocking antibody. Follow patients closely for evidence of transplant-related complications and intervene promptly. Consider the benefit versus risks of treatment with a PD-1/PD-L1 blocking antibody prior to or after an allogeneic HSCT.

Avelumab can cause **fetal harm** when administered to a pregnant woman. Advise patients of the potential risk to a fetus including the risk of fetal death. Advise females of childbearing potential to use effective contraception during treatment with avelumab and for at least 1 month after the last dose of avelumab. It is not known whether avelumab is excreted in human milk. Advise a lactating woman **not to breastfeed** during treatment and for at least 1 month after the last dose of avelumab due to the potential for serious adverse reactions in breastfeed infants.



The most common adverse reactions (all grades, ≥20%) in patients with metastatic Merkel cell carcinoma (MCC) were fatigue (47%), musculoskeletal pain (29%), infusion-related reaction (26%), rash (25%), nausea (23%), constipation (22%), cough (22%), and diarrhea (21%).

Laboratory abnormalities worsening from baseline (all grades, $\geq 20\%$) in patients with **metastatic MCC** were decreased lymphocyte count (51%), decreased hemoglobin (40%), increased aspartate aminotransferase (31%), decreased platelet count (23%), increased alanine aminotransferase (22%), and increased lipase (21%).





JAVELIN Merkel 200 Clinical Trial

JAVELIN Merkel 200 (NCT02155647) Is a Phase 2, Prospective, Single-arm, Open-label, Multicenter Trial



1L, first line; 2L, second line; BOR, best overall response; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenous; MCC, Merkel cell carcinoma; OS, overall survival; PFS, progression-free survival.

1. Kaufman HL et al. J Immunother Cancer 2018;6(1):7; 2. ClinicalTrials.gov. NCT02155647. Accessed January 11, 2022. https://clinicaltrials.gov/ct2/show/NCT02155647?term=NCT02155647&draw=2&rank=1



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JAVELIN Merkel 200 (Part A) Clinical Trial MCC – 2L

JAVELIN Merkel 200 (Part A)

ECOG PS ≥2

Phase 2, prospective, single-arm, open-label, multicenter trial designed to investigate the clinical activity and safety of avelumab in patients with mMCC; Part A of the study enrolled patients who received ≥ 1 line of chemotherapy in the metastatic setting^{1,3}



^a Patients were allowed to continue avelumab beyond radiological disease progression in the absence of significant clinical deterioration and based on investigator assessment of potential benefit from continued treatment; in patients achieving a confirmed CR for >6-12 months, avelumab could be continued beyond 12 months or discontinued per protocol and investigator choice. ^b Per the prescribing information, overall response rate and DOR were the major efficacy outcomes.

2L, second-line; BOR, best overall response; CNS, central nervous system; CTLA-4, cytotoxic T-lymphocyte-associated protein 4; DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; HIV, human immunodeficiency virus; IHC, immunohistochemistry; IV, intravenous; MCPyV, Merkel cell polyomavirus; mMCC, metastatic Merkel cell carcinoma; OS, overall survival; PD-1, programmed death-1; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PK, pharmacokinetics; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.

1. Kaufman HL et al. J Immunother Cancer 2018;6(1):7; 2. ClinicalTrials.gov. NCT02155647. https://clinicaltrials.gov/ct2/show/NCT02155647 (Accessed 27 June 2022); 3. BAVENCIO[®] (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc https://clinicaltrials.gov.NCT02155647. https://clinicaltrials.gov/ct2/show/NCT02155647 (Accessed 27 June 2022); 3. BAVENCIO[®] (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc https://clinicaltrials.gov/ct2/show/NCT02155647 (Accessed 27 June 2022); 3. BAVENCIO[®] (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc https://www.emdserono.com/us-en/pi/bavencio-pi.pdf; 4. Kaufman HL et al. Lancet Oncol 2016;17(0):1374-85; 5. D'Angelo SP et al. J Immunother Cancer 2021;9(0):e002646.





Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): Patient and Disease Characteristics



A total of **88 patients** with mMCC were enrolled and treated with avelumab



All patients had received ≥1 prior line of systemic anticancer treatment



52 patients (59.1%) had 1 prior treatment



Baseline characteristics	N=88
Median age (range) years	72 5 (33-88)
Median age (range), years	72.3 (33-68)
Sex, n (%)	
Male	65 (73.9)
Female	23 (26.1)
Site of primary tumor, n (%)	
Skin	67 (76.1)
Nonskin ^a	14 (15.9)
Missing	7 (8.0)
Visceral disease at study entry, n (%)	
Present	47 (53.4)
Absent	41 (46.6)
ECOG PS. n (%)	
0	49 (55.7)
1	39 (44.3)
No, of previous systemic anticancer treatments, n (%) ^b	
1	52 (59.1)
2	25 (28.4)
≥3	11 (12.5)
Tumor PD-L1 status. n (%)†	
Positive	57 (64.8)
Negative	16 (18.2)
Not evaluable	15 (17.0)
Tumor Merkel cell polyomavirus status, n (%)	
Positive	46 (52.3)
Negative	31 (35.2)
Not evaluable	11 (12.5)
or metastatic MCC and 35% had two or more prior therapies.	EMD
D-L1, programmed death ligand 1.	SODOND

^a Nonskin sites include lymph node (n=12 [13.6%]) and other sites (cheek mucosa and rectosigmoid junction; n=2 [2.3%]). [†]PD-L1+ status was defined as PD-L1 expression in ≥1% of tumor cells.

^b In the avelumab prescribing information, 65% of patients were reported to have had one prior anticancer therapy for metastatic MCC and 35% had two or more prior therapies

ECOG PS, Eastern Cooperative Oncology Group performance status; mMCC, metastatic Merkel cell carcinoma; PD-L1, programmed death ligand 1.

D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674.



JAVELIN Merkel 200 Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): Patient Disposition



• Median follow-up was 65.1 months (range, 60.8-74.1)



One patient (1.1%) remained on treatment

- First dose was in September 2014
- Initially had a PR that deepened to a CR (ongoing; DOR, 64.9 months)



One patient (1.1%) had reinitiated treatment

- First dose was in June 2015
- Had a CR and subsequently discontinued avelumab in July 2016 due to ongoing CR
- After PD in November 2019 (DOR, 47.5 months), patient reinitiated avelumab and is currently still receiving treatment, with a best response of PR



The most common reason for discontinuation was disease progression (n=45 [51.1%])

Patient disposition, n (%)	N=88
Received ≥1 dose of study treatment	88 (100)
Treatment ongoing	1 (1.1)
Off treatment	87 (98.9)
Reason for discontinuation of treatment	87 (98.9)
Adverse event	11 (12.5)
Lost to follow-up	1 (1.1)
Protocol noncompliance	1 (1.1)
Death	10 (11.4)
Disease progression	45 (51.1)
Withdrawal of consent	9 (10.2)
Other*	10 (11.4)
Discontinued treatment but still in follow-up	19 (21.6)
Reinitiated treatment with avelumab	1 (1.1)
Discontinued from the trial	68 (77.3)
Lost to follow-up	3 (3.4)
Death	58 (65.9)
Withdrawal of consent	7 (8.0)

* Other reasons included CR for 6 months on treatment (per protocol) in 5 patients (5.7%) and switch to commercial avelumab for patient convenience in 2 (2.3%).
 CR, complete response; DOR, duration of response; PD, progressive disease; PR, partial response.
 D'Angelo SP et al. ESMO Open. 2021;6(6):100290



JAVELIN Merkel 200

Part A 2L Avelumab

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JAVELIN Merkel 200 (Part A): Efficacy Results from the Prescribing Information

Overall responses

	N=88
ORR, n (%) [95% CI] Complete responses, n (%) Partial responses, n (%)	29 (33%) [23-44] 10 (11%) 19 (22%)
	N=29
Median DOR in months (range)	40.5 (2.8-41.5+)
Patients with DOR ≥6 months, n (%) Patients with DOR ≥12 months, n (%)	26 (90%) 19 (66%)

CI, confidence interval; DOR, duration of response; ORR, overall response rate. BAVENCIO[®] (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc <u>https://www.emdserono.com/us-en/pi/bavencio-pi.pdf</u>



JAVELIN Merkel 200 (Part A): Efficacy Results (≥3 Years of Follow-up)¹



Overall responses

Response	N=88
Confirmed best overall response, n (%) Complete response Partial response Stable disease Progressive disease Not evaluable	10 (11.4) 19 (21.6) 9 (10.2) 32 (36.4) 18 (20.5)
ORR (95% CI), %	33.0 (23.3-43.8)
Disease control rate, %	43.2
Response durability	n=29
Median duration of response (95% CI), months Range	40.5 (18.0-NE) 2.8-41.5
Proportion with duration of response (95% CI), % ≥6 months ≥1 year ≥2 years ≥3 years	93 (75-98) 71 (51-85) 67 (47-82) 52 (26-73)

The ORR was unchanged from that observed after 1 year of follow-up in all patients²

CI, confidence interval; NE, not estimable; ORR, overall response rate.

1. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674; 2. Kaufman HL et al. J Immunother Cancer 2018;6(1):7.



JAVELIN Merkel 200 (Part A): Efficacy Results in Subgroups

ORR in select subgroups after ≥36 months of follow-up

Subgroup	ORR (95% CI)
Prior systemic therapy received in any disease stage:	
1 (n=52)	40.4% (27.0-54.9)
≥2 (n=36)	22.2% (10.1-39.2)
Visceral metastases at baseline (n=47)	34.0% (20.9-49.3)
No visceral metastases at baseline (n=41)	31.7% (18.1-48.1)
PD-L1+ tumors (n=57)*	36.8% (24.4-50.7)
PD-L1- tumors (n=16)*	18.8% (4.0-45.6)
MCPyV+ tumors (n=46)*	28.3% (16.0-43.5)
MCPyV- tumors (n=31)*	35.5% (19.2-54.6)

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

* In evaluable patients.

CI, confidence interval; **MCPyV**, Merkel cell polyomavirus; **ORR**, overall response rate; **PD-L1**, programmed death-ligand 1. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674.



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JAVELIN Merkel 200 Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): ORR in Selected Subgroups Evaluable for TMB Analysis After ≥24 Months of Follow-up

	n	ORR, n (%) 95% Cl
All evaluable patients	36	12 (33.3) (18.6-51.0)
Age		
<65 years	12 + + + + + + + + + + + + + + + + + + +	4 (33.3) (9.9-65.1)
≥65 years	24	8 (33.3) (15.6-55.3)
≤median	14	4 (28.6) (8.4-58.1)
>median	22	8 (36.4) (17.2-59.3)
Site of primary tumor		
Skin	28	9 (32.1) (15.9-52.4)
Nonskin	6 F	2 (33.3) (4.3-77.7)
Not available	2	1 (50.0) (1.3-98.7)
No. of prior systemic therapies		
1	21	9 (42.9) (21.8-66.0)
≥2	15	3 (20.0) (4.3-48.1)
PD-L1 expression (≥1% tumor cells)		
Positive	27	10 (37.0) (19.4-57.6)
Negative	9	2 (22.2) (2.8-60.0)
Tumor MCPyV status		
Positive	23	6 (26.1) (10.2-48.4)
Negative	13	6 (46.2) (19.2-74.9)
тмв		
Low	25	7 (28.0) (12.1-49.4)
High		5 (45.5) (16.7-76.6)
CD8+ T-cell density at IM ^a		
≥median	20	9 (45.0) (23.1-68.5)
<median< td=""><td></td><td>1(10.0) (0.3-44.5)</td></median<>		1(10.0) (0.3-44.5)
	0 10 20 30 40 50 60 70 80	90 100
	ORR and 95% CI	

- High TMB: ORR of 45.5% (95% CI, 16.7-76.6)
- Low TMB: ORR of 28.0% (95% CI, 12.1-49.4)

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

^a CD8+ T-cell density data were missing for 6 patients.

CI, confidence interval; IM, invasive margin; MCPyV, Merkel cell polyomavirus; ORR, overall response rate; PD-L1, programmed death-ligand 1; TMB, tumor mutational burden. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674.



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JAVELIN Merkel 200 Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): ORR in Selected Subgroups Evaluable for TMB Analysis After ≥24 Months of Follow-up



Among the exploratory subgroups, ORR was highest:

- In patients with tumors with high TMB that were also MCPyV-, PD-L1+
- In patients with a >median CD8+ T-cell density at the IM
- In patients with only 1 prior systemic anticancer treatment

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

^a CD8+ T-cell density data were missing for 6 patients.

Cl, confidence interval; IM, invasive margin; MCPyV, Merkel cell polyomavirus; ORR, overall response rate; PD-L1, programmed death-ligand 1; TMB, tumor mutational burden. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674.



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JAVELIN Merkel 200

Part A 2L Avelumab

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*OS was measured from time of treatment initiation until death from any cause.³ [†]The most common (at least 10%) TRAEs were fatigue, diarrhea, and nausea. OS was a secondary endpoint.

2L+, second line or later; AE, adverse event; CI, confidence interval; mMCC, metastatic Merkel cell carcinoma; OS, overall survival; TRAE, treatment-related adverse events.

1. D'Angelo SP et al. ESMO Open 2021;6(6):100290; 2. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674; 3. ClinicalTrials.gov. NCT02155647. Accessed January 31, 2023. https://clinicaltrials.gov/ct2/show/results/NCT02155647?term=JAVELIN+MERKEL+200&draw=2&rank=1&view=results.



JAVELIN Merkel 200 (Part A): OS* in PD-L1+ and PD-L1- Tumors



*OS was measured from time of treatment initiation until death from any cause.² OS was a secondary endpoint. **CI**, confidence interval; **HR**, hazard ratio; **OS**, overall survival; **PD-L1**, programmed death ligand 1.

1. D'Angelo SP et al. ESMO Open 2021;6(6):100290; 2. ClinicalTrials.gov. NCT02155647. Accessed January 31, 2023. https://clinicaltrials.gov/ct2/show/results/NCT02155647?term=JAVELIN+MERKEL+200&draw=2&rank=1&view=results.



Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.



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JAVELIN Merkel 200 Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): OS* by TMB Subgroup at ≥44 Months of Follow-up

JAVELIN Merkel 200 Part A 2L Avelumab

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(those with >36 months of OS after \geq 44 months of follow-up; n=27) **High TMB** Low TMB 100 (n=25) (n=11) OS, median (95% CI), months 12.6 (7.1-NE) NR (0.7-NE) 90 24-months OS (95% CI), % 39 (20-57) 50 (18-75) 80 HR (95% CI) 0.71 (0.26-1.95) 70 60 **OS**, % 50 40 30

Patients with long-term OS

	0	1	1	1				1		1					1				
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
						r	Mont	hs si	nce	treat	ment	t initi	atior	1					
No. at risk	X																		
Low TMB	25	25	22	18	15	12	12	10	9	9	9	9	9	3	1	1	1	1	0
Hiah TMB	11	9	9	7	7	7	6	6	6	5	5	5	5	2	1	0	0	0	0

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

*OS was measured from time of treatment initiation until death from any cause.² Data reflect post hoc analysis. Small patient numbers can be a limitation of subgroup analyses. These results are presented for descriptive purposes and cannot be interpreted as demonstration of efficacy in any particular subgroup.

CI, confidence interval; HR, hazard ratio; NE, not estimable; NR, not reached; OS, overall survival; TMB, tumor mutational burden.

1. D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674; 2. ClinicalTrials.gov. NCT02155647. Accessed January 31, 2023. https://clinicaltrials.gov/ct2/show/results/NCT02155647?term=JAVELIN+MERKEL+200&draw=2&rank=1&view=results

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Part A 2L Avelumab

JAVELIN Merkel 200 (Part A): Exploratory Biomarkers

TMB was analyzed in 36 evaluable patients

- Median TMB was 0.58 NSSV/Mb (range, 0.16-31.6 NSSV/Mb)
- TMB was higher in patients with MCPyV- (n=13) vs MCPyV+ (n=23) tumors (2.72 vs 0.49 NSSV/Mb)
 - TMB did not differ by PD-L1 status
- In patients with high vs low (≥2 vs <2 NSSV/Mb) TMB values:
 - Median OS was not reached vs 12.6 months

MHC class I gene expression

- Expression of MHC class I HLA genes appeared to be downregulated in tumors compared with normal tissues
- MHC class I genes were among the top 0.2% of genes expressed in normal tissue, but only in the top 5% to 10% in tumors
- Of 32 patients with paired tumor and normal profiles, 9 (28.1%) had LOH at the HLA locus

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

HLA, human leukocyte antigen; LOH, loss of heterozygosity; MCPyV, Merkel cell polyomavirus; MHC, major histocompatibility complex; NSSV/Mb, nonsynonymous somatic variant per megabase; OS, overall survival; PD-L1, programmed death-ligand 1; TMB, tumor mutational burden.



JAVELIN Merkel 200 (Part A): Subsequent Anticancer Therapy

Subsequent treatment	N=88
Received subsequent therapy, n (%)	26 (29.5)
Avelumab	4 (4.5)
Carboplatin + etoposide	4 (4.5)
Pembrolizumab	4 (4.5)
Everolimus	3 (3.4)
Nivolumab	3 (3.4)
Pazopanib	3 (3.4)
Capecitabine	2 (2.3)
Cyclophosphamide + doxorubicin + vincristine	2 (2.3)
Paclitaxel	2 (2.3)
Pegylated liposomal doxorubicin hydrochloride	2 (2.3)
Temozolomide	2 (2.3)
Topotecan	2 (2.3)
Amrubicin	1 (1.1)
Carboplatin	1 (1.1)
Carboplatin + paclitaxel	1 (1.1)
Cisplatin	1 (1.1)
Combinations of antineoplastic agents	1 (1.1)
Cyclophosphamide	1 (1.1)
lpilimumab + nivolumab	1 (1.1)
Octreotide	1 (1.1)
Sunitinib	1 (1.1)
Somatostatin	1 (1.1)
Other therapeutic product	1 (1.1)



26 patients (29.5%) received subsequent anticancer therapy

4 patients (4.5%) received avelumab as subsequent therapy

The most common subsequent therapies were chemotherapy or other immune checkpoint inhibitors (including patients who switched to commercial avelumab)



JAVELIN Merkel 200 (Part A): TRAEs and IRRs (N=88)

	Any grade, n (%)	Grade ≥3, n (%)
Any TRAE ^a	68 (77.3)	10 (11.4)
Fatigue	22 (25.0)	0
Diarrhea	11 (12.5)	0
Nausea	11 (12.5)	0
Rash	8 (9.1)	0
Asthenia	7 (8.0)	0
Decreased appetite	7 (8.0)	0
Hypothyroidism	6 (6.8)	1 (1.1)
Pruritus	6 (6.8)	0
Arthralgia	5 (5.7)	0
Aspartate aminotransferase increased	5 (5.7)	0
Blood creatine phosphokinase increased	5 (5.7)	3 (3.4)
Chills	5 (5.7)	0

	Any grade, n (%)	Grade ≥3, n (%)
Rash maculopapular	5 (5.7)	0
Alanine aminotransferase increased	4 (4.5)	1 (1.1)
Lymphopenia	3 (3.4)	2 (2.3)
Gamma glutamyltransferase increased	2 (2.3)	1 (1.1)
Autoimmune disorder	1 (1.1)	1 (1.1)
Blood cholesterol increased	1 (1.1)	1 (1.1)
lleus	1 (1.1)	1 (1.1)
Neutrophil count decreased	1 (1.1)	1 (1.1)
Thrombocytopenia	1 (1.1)	1 (1.1)
Transaminases increased	1 (1.1)	1 (1.1)
Any IRR ^b	19 (21.6)	0

Shown are individual TRAEs of any grade that occurred in >5% of patients and grade ≥3 TRAEs that occurred in any patient.

^a The incidence of treatment-related IRR based on the single MedDRA Preferred Term is not listed. ^b Composite term that includes AEs categorized as IRR, anaphylactic reaction, drug hypersensitivity, type I hypersensitivity, or hypersensitivity reaction that occurred on the day of or day after infusion, in addition to signs/symptoms of IRR that occurred on the day of infusion (during or after the infusion) that resolved on the day of onset or next day; includes AEs classified by investigators as related or unrelated to treatment.

AE, adverse event; IRR, infusion-related reaction; MedDRA, Medical Dictionary for Regulatory Activities; TRAE, treatment-related adverse event.

D'Angelo SP et al. J Immunother Cancer 2020;8(1):e000674.





JAVELIN Merkel 200

Part A 2L Avelumab



JAVELIN Merkel 200 (Part A): irAEs (N=88) After ≥36 Months of Follow-up

	Any grade, n (%)	Grade ≥3, n (%)
Any irAE	19 (21.6)	4 (4.5)
Hypothyroidism	5 (5.7)	1 (1.1)
Rash	5 (5.7)	0
Diarrhea	2 (2.3)	0
Erythema	2 (2.3)	0
Abnormal thyroid function test	1 (1.1)	0
Alanine aminotransferase increased	1 (1.1)	1 (1.1)
Aspartate aminotransferase increased	1 (1.1)	0
Autoimmune disorder	1 (1.1)	1 (1.1)
Autoimmune colitis	1 (1.1)	0
Hemophagocytic lymphohistiocytosis	1 (1.1)	0
Hyperthyroidism	1 (1.1)	0
Pruritus	1 (1.1)	0
Rash maculopapular	1 (1.1)	0
Transaminases increased	1 (1.1)	1 (1.1)
Tubulointerstitial nephritis	1 (1.1)	0

irAE, immune-related adverse event.







Part A 2L Avelumab



This is the longest follow-up (>5 years) reported to date for a cohort of patients with mMCC treated with an immune checkpoint inhibitor¹



These updated data show OS in patients with mMCC whose disease had progressed following chemotherapy

- 5-year OS rate was 26%¹
- ≥3-year ORR was 33% (CR of 11.4% and PR of 21.6%)
- Safety results were consistent with those from previous studies of avelumab monotherapy in mMCC and other tumors



Although responses to avelumab occurred irrespective of PD-L1 status,¹ longer OS was observed in patients with PD-L1+ vs PD-L1- tumors¹



This study does have limitations, including its single-arm, phase 2 design and the small sample size

 Study was not designed or powered to show statistical significance. Long-term analyses reported are limited to OS



This 5-year follow-up analysis further supports the role of avelumab as a treatment option for patients with mMCC¹





JAVELIN Merkel 200 (Part B) Clinical Trial MCC – 1L

JAVELIN Merkel 200 (Part B)

Phase 2, prospective, single-arm, open-label, multicenter trial designed to investigate the clinical activity and safety of avelumab in patients with mMCC; Part B of the study enrolled patients who did not receive any prior systemic treatment for mMCC^{1,2}



1. D'Angelo SP et al. J Immunother Cancer 2021;9(7):e002646; 2. ClinicalTrials.gov. NCT02155647. https://clinicaltrials.gov/ct2/show/NCT02155647 (Accessed February 28, 2022); 3 Kaufman HL et al. Lancet Oncol 2016;17(0):1374–85.



JAVELIN Merkel 200 Part B 1L Avelumab

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JAVELIN Merkel 200 (Part B): Patient Characteristics



Median duration of treatment (May 2, 2019, data cutoff)¹**:** 24.0 weeks (range, 2.0-154.0 weeks)



Median follow-up (February 2, 2022, data cutoff)²: 54.3 months (range, 48.0-69.7 months)



Median number of avelumab infusions (May 2, 2019, data cutoff)¹**:** 11.5 (range, 1-76)

Characteristic ¹	Patients (N=116)	Characteristic ¹	Patients (N=116)
Age		Site of primary tumor, n (%)	
<65 y, n (%)	22 (19.0)	Skin	104 (89.7)
≥65 y, n (%)	94 (81.0)	Lymph node	1 (0.9)
Median (range), years	74 (41-93)	Not reported	11 (9.5)
Sex. n (%)		Visceral metastases at baseline, n (%)	
Male	81 (69.8)	Present	79 (68.1)
Female	35 (30.2)	Absent	35 (30.2)
		Not reported	2 (1.7)
ECOG PS, n (%)	70 (00 4)	PD-L1 status, n (%) ^a	
0	12 (62.1)	Positive	21 (18.1)
1	44 (37.9)	Negative	87 (75.0)
Geographic region, n (%)		Not evaluable	8 (6.9)
North America	29 (25.0)	MCPvV status n (%)b	
Western Europe	75 (64.7)	Positivo	70 (60 3)
Australia	9 (7.8)	Nogativo	37 (31 0)
Asia	3 (2.6)	Not evaluable	9 (7 8)
		Not evaluable	9 (7.0)
l ime since initial diagnosis, median (range), months	10.6 (0.7-120.9)	Prior anticancer drug therapy, n (%)	
Time since diagnosis of metastatic disease, median (range),	2.2 (0.4.40.6)	No	110 (94.8)
months	2.2 (0.4-49.6)	Yes	6 (5.2) ^c

^a PD-L1+ status was defined as expression in \geq 1% of tumor cells, assessed using a Dako PD-L1 73-10 IHC assay. ^b Assessed by IHC. ^c Either cisplatin or carboplatin, combined with etoposide in 3 patients; given either for locally advanced disease (n=4; 3.4%) or as adjuvant therapy (n=2; 1.7%).

ECOG PS, Eastern Cooperative Oncology Group performance status; **PD-L1**, programmed death ligand 1.

1. D'Angelo SP et al. J Immunother Cancer 2021;9(7):e002646; 2. D'Angelo SP et al. Abstract No. 604. Presented at: SITC 2022. November 8-12, 2022; Boston, MA, USA.



JAVELIN Merkel 200 (Part B): Patient Disposition

Follow-up Analysis Data cutoff: Feb 2, 2022

JAVELIN Merkel 200 Part B 1L Avelumab

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	N = 116
Received ≥1 dose of avelumab, n (%)	116 (100)
Study treatment ongoing	7 (6.0)
Discontinued study treatment	109 (94.0)
Reason for discontinuation of study treatment, n (%)	
Disease progression	54 (46.6)
Adverse event	27 (23.3)
Withdrawal of consent	6 (5.2)
Death	5 (4.3)
Loss to follow-up	1 (0.9)
Other	16 (13.8)

	N = 116		
Re-initiated study treatment with avelumab, n (%)	2 (1.7)		
Discontinued study treatment but remained in follow-up, n (%)	22 (19.0)		
Discontinued from the trial, n (%)	87 (75.0)		
Reason for discontinuation from the trial, n (%)			
Death	71 (61.2)		
Loss to follow-up	4 (3.4)		
Withdrawal of consent	4 (3.4)		
Other	8 (6.9)		





JAVELIN Merkel 200 (Part B): Efficacy Results from the Prescribing Information

Overall responses

	N=116
ORR, n (%) [95% CI] Complete responses, n (%) Partial responses, n (%)	46 (40%) [31,49] 19 (16%) 27 (23%)
	N=46
Median DOR in months (range)	18.2 (1.2+, 28.3+)

CI, confidence interval; DOR, duration of response; ORR, overall response rate. BAVENCIO® (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc https://www.emdserono.com/us-en/pi/bavencio-pi.pdf





Responses were determined by independent review committee per RECIST v1.1.

a No postbaseline assessments due to early death (n=4) or other reasons (n=2), no adequate baseline assessment (n=2), or all postbaseline assessments had overall response of not evaluable (n=1).

1L, first line; BOR, best overall response; CI, confidence interval; CR, complete response; DRR, durable response rate; ORR, overall response rate; PR, partial response;

RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1.



^a Based on Kaplan-Meier estimates.

1L, first line; CI, confidence interval; CR, complete response; DOR, duration of response; NE, not estimable; PD, progressive disease; PR, partial response. D'Angelo SP et al. J Immunother Cancer 2021;9(7):e002646.



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*OS was measured from time of treatment initiation until death from any cause.3

Cl, confidence interval; ; **mMCC**, metastatic Merkel cell carcinoma; **OS**, overall survival; **PFS**, progression-free survival.

1. D'Angelo SP et al. Abstract No. 604. Presented at: SITC 2022. November 8-12, 2022; Boston, MA, USA; 2. D'Angelo SP et al. J Immunother Cancer 2021;9(7):e002646; 3. ClinicalTrials.gov. NCT02155647. Accessed January 31, 2023. https://clinicaltrials.gov/ct2/show/results/NCT02155647?term=JAVELIN+MERKEL+200&draw=2&rank=1&view=results.



JAVELIN Merkel 200 (Part B): OS* With 1L Avelumab in Subgroups Defined by PD-L1 Status



*OS was measured from time of treatment initiation until death from any cause.²

Cl, confidence interval; OS, overall survival; PD-L1, programmed death ligand 1; NE, not estimable.

1. D'Angelo SP et al. Abstract No. 604. Presented at: SITC 2022. November 8-12, 2022; Boston, MA, USA; 2. ClinicalTrials.gov. NCT02155647. Accessed January 31, 2023. https://clinicaltrials.gov/ct2/show/results/NCT02155647?term=JAVELIN+MERKEL+200&draw=2&rank=1&view=results.



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JAVELIN Merkel 200

Part B 1L Avelumab



JAVELIN Merkel 200 (Part B): DRR in Subgroups

Subgroup	DRR and 95% CI, %	95% CI	95% CI
Overall population	116	.2) 22.0-39.4	22.0-39.4
Baseline ECOG PS 0 1		.7) 23.9-46.9 .7) 11.5-37.8	23.9-46.9 11.5-37.8
Disease burden (baseline SLD) ≤ Median > Median		.3) 21.4-47.1 .5) 14.7-39.0	21.4-47.1 14.7-39.0
PD-L1 expression (≥1% cutoff) Positive Negative Not evaluable		A trend was seen for higher DRR in patients (47.6% vs 25.3%, respectively)	25.7-70.2 16.6-35.7 8.5-75.5
MCPyV status Positive Negative Not evaluable	70 37 9	.1) 17.2-39.1 .1) 20.2-52.5 3) 7.5-70.1	17.2-39.1 20.2-52.5 7.5-70.1
Age <65 years ≥65 years	22 94	 17.2-59.3 .7) 19.9-39.0 Numerically higher DRRs were observed in patients with: 	17.2-59.3 19.9-39.0
Sex Male Female		 .8) 25.4-47.2 .6.6-33.6 MCPyV- (vs MCPyV+) tumors Median or higher CD8+ T-cell density at 	25.4-47.2 6.6-33.6
Baseline CD8 + T-cell density (at invasive margin) < Median ≥ Median Not evaluable	42 43 31	the invasive margin (vs less than median) .8) 12.1-39.5 .2) 23.0-53.3 .2) 14.2-48.0 Small patient numbers can be a limitation of subgroup	12.1-39.5 23.0-53.3 14.2-48.0
No. of prior systemic therapies 0 ≥1		analyses. These analyses may not be powered to detect significant differences and were not designed to	22.4-40.4 0.4-64.1
	0 10 20 30 40 50 60 70 80	compare across subgroups. Any comparison between groups should be approached with caution.	





JAVELIN Merkel 200 (Part B): ORR in Subgroups

Subgroup		ORR and 95% CI, %	n (%)	95% CI	Primary Analysis
Overall population	116	⊢ ⊢ ⊢	46 (39.7)	30.7-49.2	Data cutoff: May 2, 2
Baseline ECOG PS 0 1	72 44		34 (47.2) 12 (27.3)	35.3-59.3 15.0-42.8	
Disease burden (baseline SLD) ≤ Median > Median	57 55		26 (45.6) 18 (32.7)	32.4-59.3 20.7-46.7	
PD-L1 expression (≥1% cutoff) Positive Negative Not evaluable	21 87 8		13 (61.9) 29 (33.3) 4 (50.0)	38.4-81.9 23.6-44.3 15.7-84.3	A trend was seen for higher ORR in patients with PD-L1+ vs PD-L1- tumors (61.9% vs 33.3%, respectively)
MCPyV status Positive Negative Not evaluable	70 37 9		24 (34.3) 18 (48.6) 4 (44.4)	23.3-46.6 31.9-65.6 13.7-78.8	
Age <65 years ≥65 years	22 94		11 (50.0) 35 (37.2)	28.2-71.8 27.5-47.8	Numerically higher ORRs were observed in patients with:
Sex Male Female	81 35		34 (42.0) 12 (34.3)	31.1-53.5 19.1-52.2	 MCPyV- (vs MCPyV+) tumors Median or higher CD8+ T-cell density at
Baseline CD8 + T-cell density (at invasive margin) < Median ≥ Median Not evaluable	42 43 31		12 (28.6) 22 (51.2) 12 (38.7)	15.7-44.6 35.5-66.7 21.8-57.8	the invasive margin (vs less than median) Small patient numbers can be a limitation of subgroup
No. of prior systemic therapies 0 ≥1	110 6 F		44 (40.0) 2 (33.3)	30.8-49.9 4.3-77.7	analyses. These analyses may not be powered to detect significant differences and were not designed to
	0	10 20 30 40 50 60 70 80 90	100		compare across subgroups. Any comparison between groups should be approached with caution





> Primary Analysis Data cutoff: May 2, 2019

JAVELIN Merkel 200 (Part B): Exploratory Biomarkers

TMB was analyzed in 52 evaluable patients

- Median TMB was 0.34 NSSV/Mb (range, 0.02-29.4 NSSV/Mb)
- TMB was higher in patients with MCPyV- (n=19) vs MCPyV+ (n=31) tumors (10.52 vs 0.22 NSSV/Mb)
 - TMB did not differ by PD-L1 status or by achievement of objective response
- In patients with high vs low (≥2 vs <2 NSSV/Mb) TMB values:
 - ORRs were 50.0% (95% CI, 26.0%-74.0%) vs 41.2% (95% CI, 24.6%-59.3%)
 - Median OS was not reached vs 17.2 months

MHC class I gene expression

- MHC class I gene expression was higher in tumors with high CD8+ T-cell density
- Expression of MHC class I genes was lower in MCC tumors vs normal tissues; however, MHC class I expression did not appear to correlate with response or OS
- Both T-cell activation and exhaustion gene signatures correlated with higher MHC class I expression, suggesting that the immune response in these tumors is primed but exhausted

Small patient numbers can be a limitation of subgroup analyses. These analyses may not be powered to detect significant differences and were not designed to compare across subgroups. Any comparison between groups should be approached with caution.

CI, confidence interval; MCC, Merkel cell carcinoma; MCPyV, Merkel cell polyomavirus; MHC, major histocompatibility complex; NSSV/Mb, nonsynonymous somatic variants per megabase; ORR, overall response rate; OS, overall survival; PD-L1, programmed death ligand 1; TMB, tumor mutational burden.

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JAVELIN Merkel 200 (Part B): Safety (N=116)

Part B 1L Avelumab

JAVELIN Merkel 200

Primary Analysis Data cutoff: May 2, 2019

TRAEs

- Grade 3 TRAEs occurred in 20 patients (17.2%)
- A grade 4 TRAE occurred in 1 patient (0.9%)^c
- No treatment-related deaths occurred
- TRAEs led to treatment discontinuation in 14 patients (12.1%)

irAE

An irAE of any grade occurred in 35 patients (30.2%), and reached grade \geq 3 in 7 (6.0%)

IRR

An IRR^b occurred in 34 patients (29.3%)
1 patient (0.9%) had a grade 3 IRR
No grade ≥4 IRRs occurred

Safety outcome, n (%)	N=116
AE, any grade	116 (100.0)
TRAE, any grade	94 (81.0)
AE, grade ≥3	70 (60.3)
TRAE, grade ≥3	21 (18.1)
Serious AE	58 (50.0)
Serious TRAE	17 (14.7)
AE leading to death	15 (12.9)
TRAE leading to death	0
AE leading to permanent treatment discontinuation	30 (25.9)
TRAE leading to permanent treatment discontinuation	14 (12.1)
irAE, ^a any grade	35 (30.2)
irAE,ª grade ≥3	7 (6.0)
IRR, ^b any grade	34 (29.3)
IRR, ^b grade ≥3	1 (0.9)

^a Based on a prespecified list of Medical Dictionary for Regulatory Activities terms followed by comprehensive medical review. ^b Composite term, which includes AEs categorized as IRR, anaphylactic reaction, drug hypersensitivity, type I hypersensitivity, or hypersensitivity reaction that occurred on the day of or day after infusion, in addition to signs/symptoms of infusion-related reaction that occurred on the day of infusion (during or after the infusion) that resolved on the day of onset or next day; includes AEs classified by investigators as related or unrelated to treatment. ^c Dermatitis psoriasiform.

AE, adverse event; irAE, immune-related adverse event; IRR, infusion-related reaction; TRAE, treatment-related adverse event.



JAVELIN Merkel 200 (Part B): Most Common TRAEs (N=116)

	N=116		
	Any grade	Grade ≥3	
Any treatment-related adverse event, n (%)	94 (81.0)	21 (18.1)	Any
Fatigue	24 (20.7)	1 (0.9)	CI
Asthenia	16 (13.8)	0	C
Pruritus	15 (12.9)	1 (0.9)	D
IRR ^a	13 (11.2)	1 (0.9)	D
Chills	12 (10.3)	0	G
Lipase increased	6 (5.2)	4 (3.4)	Li
Appetite decreased	6 (5.2)	1 (0.9)	Pa
ALT increased	5 (4.3)	1 (0.9)	Pa
Amylase increased	3 (2.6)	3 (2.6)	P
AST increased	2 (1.7)	1 (0.9)	T
Autoimmune nephritis	1 (0.9)	1 (0.9)	Т
Autoimmune neuropathy	1 (0.9)	1 (0.9)	Any

	N=116	
	Any grade	Grade ≥3
ny treatment-related adverse event, n (%)	94 (81.0)	21 (18.1)
Cholangitis	1 (0.9)	1 (0.9)
Colitis	1 (0.9)	1 (0.9)
Dehydration	1 (0.9)	1 (0.9)
Dermatitis psoriasiform	1 (0.9)	1 (0.9)
Gait disturbance	1 (0.9)	1 (0.9)
Liver function test increased	1 (0.9)	1 (0.9)
Paraneoplastic encephalomyelitis	1 (0.9)	1 (0.9)
Paraneoplastic syndrome	1 (0.9)	1 (0.9)
Polyneuropathy in malignant disease	1 (0.9)	1 (0.9)
Troponin increased	1 (0.9)	1 (0.9)
Tumor lysis syndrome	1 (0.9)	1 (0.9)
ny IRR⁵	34 (29.3)	1 (0.9)

TRAEs of any grade in \geq 10% of patients or grade \geq 3 in any patient are listed.

^a Treatment-related IRRs based on the single Medical Dictionary for Regulatory Activities preferred term. ^b Includes adverse events (irrespective of relatedness) categorized as IRR, drug hypersensitivity, or hypersensitivity reaction that occurred on the day of or the day after infusion, in addition to signs/symptoms of IRR that occurred on day of infusion (during or after the infusion) that resolved on the day of onset or the next day.

ALT, alanine aminotransferase; AST, aspartate aminotransferase; IRR, infusion-related reaction; TRAE, treatment-related adverse event.

D'Angelo SP et al. J Immunother Cancer 2021;9(7):e002646.



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JAVELIN Merkel 200 Part B 1L Avelumab

> Primary Analysis Data cutoff: May 2, 2019

JAVELIN Merkel 200 (Part B): Subsequent Treatment (In Any Line)

- 48 patients (41.4%) received ≥1 subsequent anticancer drug therapy after discontinuing study treatment with avelumab
- The most common subsequent therapies (any line) were etoposide (20 [17.2%]), carboplatin (18 [15.5%]), and avelumab (14 [12.1%]; all 14 patients received single-agent avelumab outside of a clinical trial)

Subsequent treatment, ^a n (%)	n=48 ^b
Etoposide	20 (17.2)
Carboplatin	18 (15.5)
Avelumab	14 (12.1)
Pembrolizumab	9 (7.8)
Paclitaxel	5 (4.3)
Ipilimumab	4 (3.4)
Cisplatin	3 (2.6)
Carboplatin + etoposide	2 (1.7)
Cisplatin + etoposide	2 (1.7)
Nivolumab	2 (1.7)
Temozolomide	2 (1.7)

In 14 patients who received further avelumab after discontinuing from the study:

	n=14
Reason for discontinuation	
PD	6
AE	3
Other ^c	5
Response status when avelumab was discontinued (per investigator assessment)	
CR/PR	6
PD	6
NE	2
Best response to post-study avelumab (per investigator assessment)	
CR	5
SD	1
PD	2
NR	6

Best response to
subsequent avelumabn=6CR3SD1Unknown2

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JAVELIN Merkel 200

Part B 1L Avelumab

Follow-up Analysis

Data cutoff: Feb 2, 2022

Best response to subsequent avelumab	n=6
CR	1
PD	2
Unknown	3

Best response to subsequent avelumab	n=2
CR	1
Unknown	1
Unknown	1

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^aAgents that were used in 2 or more patients. ^b Some patients received >1 subsequent treatment and are subsequently included in more than one row of the table. ^cOther reasons include physician and/or patient decision in 3 instances, complete metabolic remission in 1 instance, and not specified in 1 instance.

AE, adverse event; CR, complete response; NE, not estimable; NR not reported; PD, progressive disease; PR partial response; SD, stable disease.

D'Angelo SP et al. Abstract No. 604. Presented at: SITC 2022. November 8-12, 2022; Boston, MA, USA.

JAVELIN Merkel 200 (Part B): Summary



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JAVELIN Merkel 200 Part B 1L Avelumab



JAVELIN Merkel 200 Clinical Trial Pooled Safety Data per Prescribing Information

JAVELIN Merkel 200: Adverse Reactions



Adverse reactions	Avelumab (N=204)	
	All Grades %	Grade 3-4 %
Fatigue ^a	47	2.9
Musculoskeletal pain ^b	29	1.5
Infusion-related reaction ^c	26	0.5
Rash ^d	25	0
Nausea	23	0
Constipation	22	0.5
Cough	22	0
Diarrhea ^e	21	1
Decreased appetite	18	3.4
Edema ^f	17	0

Adverse reactions	Avelumab (N=204)	
	All Grades %	Grade 3-4 %
Abdominal pain ^g	16	3.4
Decreased weight	16	0.5
Pruritus ^h	16	0.5
Dyspnea ⁱ	15	1
Arthralgia	13	0.5
Vomiting	12	1
Hypertension	11	6

• The median duration of exposure to avelumab was 4.1 months (range: 2 weeks to 48 months).

 Serious adverse reactions occurred in 52% of patients receiving avelumab. The most frequent serious adverse reactions (≥2% of patients) were general physical health deterioration, anemia, abdominal pain, acute kidney injury, sepsis, hyponatremia, and infusion-related reaction.

a Fatigue is a composite term that includes fatigue and asthenia. b Musculoskeletal pain is a composite term that includes musculoskeletal pain, back pain, myalgia, neck pain, and pain in extremity. c Infusion-related reaction is a composite term that includes drug hypersensitivity, flushing, hypersensitivity, chills, pyrexia, back pain, infusion-related reaction, dyspnea, and hypotension. d Rash is a composite term that includes rash, rash macular, rash maculo-papular, erythema, rash erythematous, rash pruritic, and dermatitis bullous. e Diarrhea is a composite term that includes diarrhea and colitis. f Peripheral edema is a composite term that includes peripheral edema, genital edema and peripheral swelling. g Abdominal pain is a composite term that includes abdominal pain, abdominal pain lower and abdominal pain upper. h Pruritus is a composite term that includes pruritus and pruritus generalized. i Dyspnea is a composite term that includes dyspnea exertional.

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BAVENCIO® (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc. https://www.emdserono.com/us-en/pi/bavencio-pi.pdf



Part A 2L Avelumab

JAVELIN Merkel 200: Laboratory Abnormalities

Lab Abnormalities Worsening From Baseline Occurring in ≥20% of Patients With Metastatic MCC Receiving Avelumab

Laboratory tests	Any grade (%)ª	Grade 3-4 (%)ª
Chemistry		
AST increased	31	3
ALT increased	22	3.5
Lipase increased	21	5
Hematology		
Lymphocyte count decreased	51	16
Hemoglobin decreased	40	6
Platelet count decreased	23	1.5

- Avelumab was permanently discontinued for adverse reactions in 27% of patients
 - The most frequent adverse reactions (>1% of patients) that resulted in permanent discontinuation were infusion-related reaction, anemia, increased ALT, and increased AST
- Dose interruptions due to an adverse reaction, excluding temporary interruptions due to infusion-related reactions, occurred in 29% of patients
 - The most frequent adverse reactions (>1% of patients) that required dosage interruption were nasopharyngitis, anemia, diarrhea, lung infection and increased ALT

ALT, Alanine aminotransferase; AST, Aspartate aminotransferase.

^a Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available (range: 185 to 199 patients). BAVENCIO[®] (avelumab) Prescribing Information. Rockland, MA: EMD Serono Inc <u>https://www.emdserono.com/us-en/pi/bavencio-pi.pdf</u>



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