

NOWAPPROVED

Based on overall survival (OS) data The FIRST and ONLY immunotherapy approved in the first-line maintenance setting



First-line maintenance treatment of urothelial carcinoma

BAVENCIO[®] (avelumab) is indicated for the maintenance treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) that has not progressed with first-line platinum-containing chemotherapy.



National Comprehensive Cancer Network (NCCN®) Recommendation

Avelumab maintenance therapy (category 2A) is recommended as part of a preferred regimen as an option for first-line systemic therapy in patients with locally advanced or metastatic urothelial carcinoma that has not progressed with first-line platinum-containing chemotherapy.¹

Category 2A=Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate. Preferred intervention=Interventions that are based on superior efficacy, safety, and evidence; and, when appropriate, affordability.

SELECTED SAFETY INFORMATION

BAVENCIO can cause immune-mediated pneumonitis, including fatal cases. Monitor patients for signs and symptoms of pneumonitis, and evaluate suspected cases with radiographic imaging. Administer corticosteroids for Grade 2 or greater pneumonitis. Withhold BAVENCIO for moderate (Grade 2) and permanently discontinue for severe (Grade 3), life-threatening (Grade 4), or recurrent moderate (Grade 2) pneumonitis. Pneumonitis occurred in 1.2% of patients, including one (0.1%) patient with fatal, one (0.1%) with Grade 4, and five (0.3%) with Grade 3.

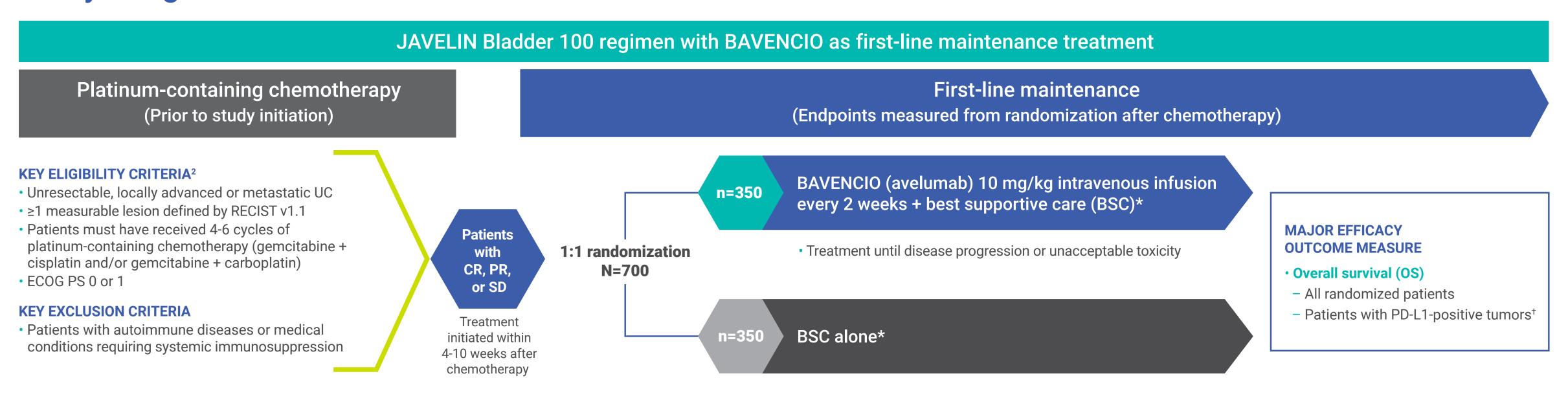
BAVENCIO can cause hepatotoxicity and immune-mediated hepatitis, including fatal cases. Monitor patients for abnormal liver tests prior to and periodically during treatment. Administer corticosteroids for Grade 2 or greater hepatitis. Withhold BAVENCIO for moderate (Grade 2) immune-mediated hepatitis until resolution and permanently discontinue for severe (Grade 3) or life-threatening (Grade 4) immune-mediated hepatitis. Immune-mediated hepatitis occurred with BAVENCIO as a single agent in 0.9% of patients, including two (0.1%) patients with fatal, and 11 (0.6%) with Grade 3.

BAVENCIO can cause immune-mediated colitis. Monitor patients for signs and symptoms of colitis. Administer corticosteroids for Grade 2 or greater colitis. Withhold BAVENCIO for moderate or severe (Grade 2 or 3) colitis until resolution. Permanently discontinue for life-threatening (Grade 4) or recurrent (Grade 3) colitis upon reinitiation of BAVENCIO. Immune-mediated colitis occurred in 1.5% of patients, including seven (0.4%) with Grade 3.

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.



JAVELIN Bladder 100 Trial—a Phase 3, randomized, open-label, multicenter study (N=700)² Study design



- assessed at the time of initiating first-line platinum-containing chemotherapy²
- gemcitabine plus carboplatin (6%)
- the investigator
- until documented confirmed disease progression based on BICR assessment per RECIST v1.1

*BSC was administered as deemed appropriate by the treating physician, and could include treatment with antibiotics, nutritional support, and other patient management approaches with palliative intent (excludes systemic antitumor therapy); ⁺PD-L1 expression was assessed in tumor samples using the VENTANA PD-L1 (SP263) assay.² BICR=blinded independent central review; CR=complete response; ECOG PS=Eastern Cooperative Oncology Group (ECOG) Performance Status; PD-L1=programmed death ligand-1; PR=partial response; RECIST=Response Evaluation Criteria in Solid Tumors; SD=stable disease.

SELECTED SAFETY INFORMATION

BAVENCIO can cause immune-mediated endocrinopathies, including adrenal insufficiency, thyroid disorders, and type 1 diabetes mellitus.

Monitor patients for signs and symptoms of adrenal insufficiency during and after treatment, and administer corticosteroids as appropriate. Withhold BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) adrenal insufficiency. Adrenal insufficiency was reported in 0.5% of patients, including one (0.1%) with Grade 3.

Thyroid disorders can occur at any time during treatment. Monitor patients for changes in thyroid function at the start of treatment, periodically during treatment, and as indicated based on clinical evaluation. Manage hypothyroidism with hormone replacement therapy and hyperthyroidism with medical management. Withhold BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) thyroid disorders. Thyroid disorders, including hypothyroidism, hyperthyroidism, and thyroiditis, were reported in 6% of patients, including three (0.2%) with Grade 3.

Type 1 diabetes mellitus including diabetic ketoacidosis: Monitor patients for hyperglycemia or other signs and symptoms of diabetes. Withhold BAVENCIO and administer antihyperglycemics or insulin in patients with severe or life-threatening (Grade \geq 3) hyperglycemia, and resume treatment when metabolic control is achieved. Type 1 diabetes mellitus without an alternative etiology occurred in 0.1% of patients, including two cases of Grade 3 hyperglycemia.

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.



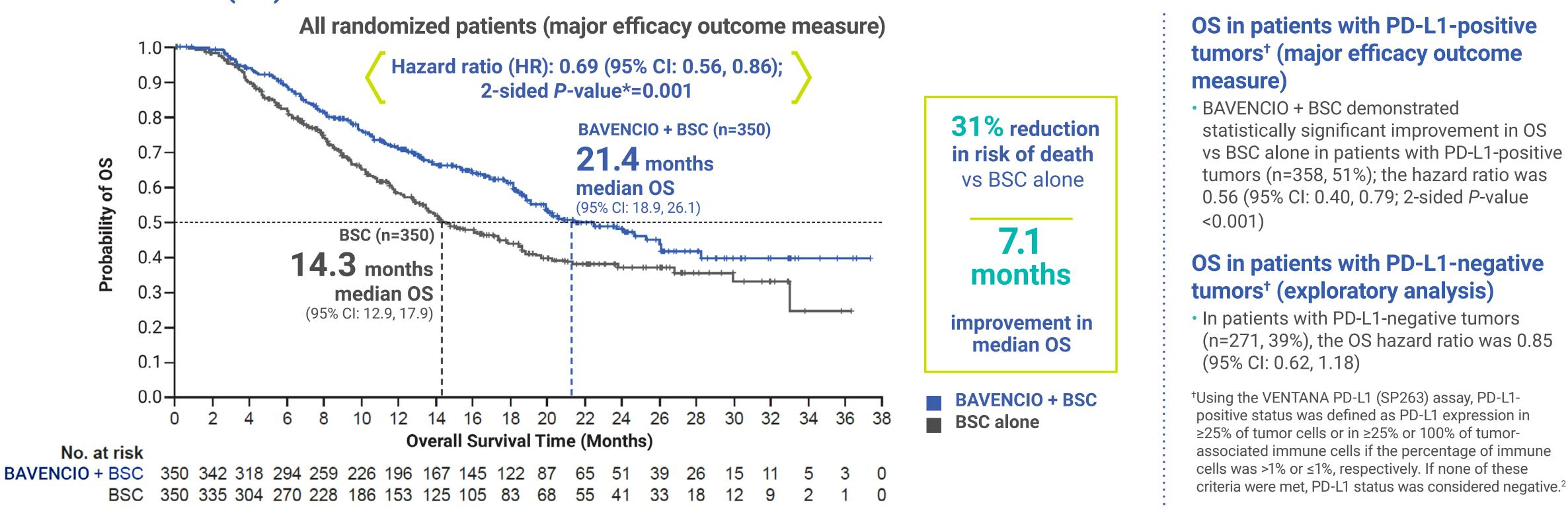
• Stratified by best response to chemotherapy (CR/PR [72%] vs SD [28%] per RECIST v1.1) and site of metastasis (visceral [55%] vs nonvisceral, including bone metastasis [45%])

• First-line chemotherapy regimens included prior gemcitabine plus cisplatin (56%), prior gemcitabine plus carboplatin (38%), and prior gemcitabine plus cisplatin and

• Administration of BAVENCIO was permitted beyond RECIST-defined disease progression if the patient was clinically stable and considered to be deriving clinical benefit by

• Assessment of tumor status was performed at baseline, 8 weeks after randomization, then every 8 weeks up to 12 months after randomization, and every 12 weeks thereafter

JAVELIN Bladder 100 Trial—a Phase 3, randomized, open-label, multicenter study in patients with unresectable, locally advanced or metastatic urothelial carcinoma that did not progress with first-line platinum-containing chemotherapy (N=700)² **BAVENCIO[®]** (avelumab) + best supportive care (BSC) demonstrated superior overall survival (OS) vs BSC alone



- OS was measured post-randomization (after chemotherapy)

• Among all randomized patients, consistent results were observed across the prespecified subgroup of CR/PR vs SD to first-line chemotherapy • 44% of patients in the BSC arm received another PD-1/PD-L1 checkpoint inhibitor as subsequent therapy vs 6% of patients in the BAVENCIO + BSC arm *P-value based on stratified log-rank. CI=confidence interval; PD-1=programmed death-1 receptor; PD-L1=programmed death ligand-1.

SELECTED SAFETY INFORMATION

BAVENCIO can cause immune-mediated nephritis and renal dysfunction. Monitor patients for elevated serum creatinine prior to and periodically during treatment. Administer corticosteroids for Grade 2 or greater nephritis. Withhold BAVENCIO for moderate (Grade 2) or severe (Grade 3) nephritis until resolution to Grade 1 or lower. Permanently discontinue BAVENCIO for life-threatening (Grade 4) nephritis. Immune-mediated nephritis occurred in 0.1% of patients.

BAVENCIO can result in other severe and fatal immune-mediated adverse reactions involving any organ system during treatment or after treatment discontinuation. For suspected immune-mediated adverse reactions, evaluate to confirm or rule out an immune-mediated adverse reaction and to exclude other causes. Depending on the severity of the adverse reaction, withhold or permanently discontinue BAVENCIO, administer high-dose corticosteroids, and initiate hormone replacement therapy, if appropriate. Resume BAVENCIO when the immune-mediated adverse reaction remains at Grade 1 or lower following a corticosteroid taper. Permanently discontinue BAVENCIO for any severe (Grade 3) immune-mediated adverse reaction that recurs and for any life-threatening (Grade 4) immune-mediated adverse reaction. The following clinically significant immune-mediated adverse reactions occurred in less than 1% of 1738 patients treated with BAVENCIO as a single agent or in 489 patients who received BAVENCIO in combination with axitinib: myocarditis including fatal cases, pancreatitis including fatal cases, myositis, psoriasis, arthritis, exfoliative dermatitis, erythema multiforme, pemphigoid, hypopituitarism, uveitis, Guillain-Barré syndrome, and systemic inflammatory response.

Please see Selected Safety Information throughout and full <u>Prescribing Information</u> and <u>Medication Guide</u> starting on page 10.





BAVENCIO[®] (avelumab)—an established safety profile

The WARNINGS AND PRECAUTIONS were established based on data from over 1700 patients treated with BAVENCIO 10 mg/kg across multiple tumor types, the majority of whom were treated with BAVENCIO monotherapy.

Summary of warnings and precautions

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BAVENCIO can cause fetal harm when administered to a pregnant woman.	 Advise patients of the potential risk to Advise females of childbearing potential the last dose of BAVENCIO It is not known whether BAVENCIO is Advise a lactating woman not to breat potential for serious adverse reaction



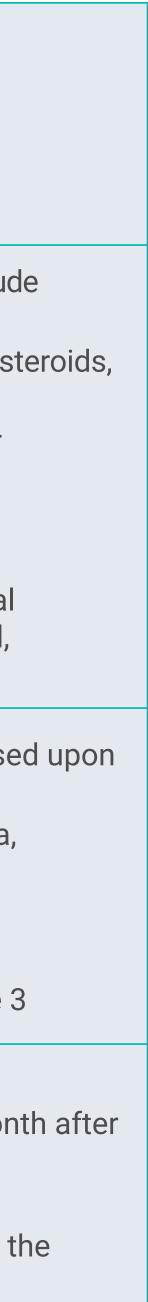
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- n 25% of patients, including three (0.2%) patients with Grade 4 and nine (0.5%) with Grade 3

o a fetus including the risk of fetal death

- ntial to use effective contraception during treatment with BAVENCIO and for at least 1 month after
- excreted in human milk
- astfeed during treatment and for at least 1 month after the last dose of BAVENCIO due to the ns in breastfed infants





JAVELIN Bladder 100 Trial—a Phase 3, randomized, open-label, multicenter study in patients with unresectable, locally advanced or metastatic urothelial carcinoma that did not progress with first-line platinum-containing chemotherapy (N=689)² **BAVENCIO®** (avelumab)—adverse reaction profile

• A fatal adverse reaction (sepsis) occurred in one (0.3%) patient receiving BAVENCIO + best supportive care (BSC)

 Thirty-one (9%) patients treated with BAVENCIO + BSC received an oral pred dose equivalent to \geq 40 mg daily for an immune-mediated adverse reaction

Adverse Reactions	BAVENCIO +	BAVENCIO + BSC (n=344)		BSC (n=345)	
Auverse Reactions	All Grades %	Grades 3-4 %	All Grades %	Grades 3-4 %	
General Disorders and Administration Site Conditions	S				
Fatigue*	35	1.7	13	1.7	
Pyrexia	15	0.3	3.5	0	
Musculoskeletal and Connective Tissue Disorders					
Musculoskeletal pain ⁺	24	1.2	15	2.6	
Arthralgia	16	0.6	6	0	
Skin and Subcutaneous Tissue Disorders					
Rash [‡]	20	1.2	2.3	0	
Pruritus	17	0.3	1.7	0	
Infections and Infestations					
Urinary tract infection [§]	20	6	11	3.8	
Gastrointestinal Disorders	_				
Diarrhea	17	0.6	4.9	0.3	
Constipation	16	0.6	9.0	0	
Nausea	16	0.3	6	0.6	
Vomiting	13	1.2	3.5	0.6	
Respiratory, Thoracic and Mediastinal Disorders	_				
Cough ^{II}	14	0.3	4.6	0	
Metabolism and Nutrition Disorders					
Decreased appetite	14	0.3	7	0.6	
Endocrine Disorders					
Hypothyroidism	12	0.3	0.6	0	
Injury, Poisoning and Procedural Complications					
Infusion-related reaction	10	0.9	0	0	

Adverse reactions (≥10%) of patients receiving BAVENCIO + BSC

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.



	• Serious adverse reactions occurred in 28% of patients receiving BAVENCIO + BS Serious adverse reactions in \geq 1% of patients included urinary tract infection (including kidney infection, pyelonephritis, and urosepsis) (6.1%), pain (includ abdominal, back, bone, flank, extremity, and pelvic pain) (3.2%), acute kidney (1.7%), hematuria (1.5%), sepsis (1.2%), and infusion-related reaction (1.2%)
ednisone	 Patients received premedication with an antihistamine and acetaminophen to each infusion. Infusion-related reactions occurred in 10% of patients trea with BAVENCIO + BSC (Grade 3: 0.9%)

*Fatigue is a composite term that includes fatigue, asthenia, and malaise.

- ⁺Musculoskeletal pain is a composite term that includes musculoskeletal pain, back pain, myalgia, and neck pain.
- [‡]Rash is a composite term that includes rash, rash maculopapular, erythema, dermatitis acneiform, eczema, erythema multiforme, rash erythematous, rash macular, rash papular, rash pruritic, drug eruption, and lichen planus.

[§]Urinary tract infection is a composite term that includes urinary tract infection, urosepsis, cystitis, kidney infection, pyuria, pyelonephritis, bacteriuria, pyelonephritis acute, urinary tract infection bacterial, and Escherichia urinary tract infection. ^{II}Cough is a composite term that includes cough and

productive cough.

BSC.

Iding ey injury

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did not progress with first-line platinum-containing chemotherapy (N=689)² **BAVENCIO[®]** (avelumab)—adverse reaction profile (cont'd)

Discontinuation rates due to an adverse reaction

- In the BAVENCIO + best supportive care (BSC) arm (n=344), permanent discontinuation due to an adverse reaction occurred in **12%** of patients
- Adverse reactions resulting in permanent discontinuation of BAVENCIO in >1% of patients were myocardial infarction (including acute myocardial infarction and troponin T increased) (1.5%) and infusion-related reaction (1.2%)

	BAVENC	BAVENCIO + BSC*		C *
Laboratory Abnormality	Any Grade %	Grades 3-4 %	Any Grade %	Grades 3-4 %
Chemistry				
Blood triglycerides increased	34	2.1	28	1.2
Alkaline phosphatase increased	30	2.9	20	2.3
Blood sodium decreased	28	6	20	2.6
Lipase increased	25	8	16	6
Aspartate aminotransferase (AST) increased	24	1.7	12	0.9
Blood potassium increased	24	3.8	16	0.9
Alanine aminotransferase (ALT) increased	24	2.6	12	0.6
Blood cholesterol increased	22	1.2	16	0.3
Serum amylase increased	21	5	12	1.8
CPK increased	19	2.4	12	0
Phosphate decreased	19	3.2	15	1.2
Hematology				
Hemoglobin decreased	28	4.4	18	3.2
White blood cell decreased	20	0.6	10	0
Platelet count decreased	18	0.6	12	0.3

Selected laboratory abnormalities worsening from baseline occurring in ≥10% of patients receiving BAVENCIO + BSC

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.



JAVELIN Bladder 100 Trial—a Phase 3, randomized, open-label, multicenter study in patients with unresectable, locally advanced or metastatic urothelial carcinoma that

Dose interruptions due to an adverse reaction

- In the BAVENCIO + BSC arm (n=344), dose interruptions due to an adverse reaction, excluding temporary interruptions of BAVENCIO infusions due to infusion-related reactions, occurred in **41%** of patients
- Adverse reactions leading to interruption of BAVENCIO in >2% of patients were urinary tract infection (including pyelonephritis) (4.7%) and blood creatinine increased (including acute kidney injury, renal impairment, and renal failure) (3.8%)

*Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: BAVENCIO + BSC group (range: 339 to 344 patients) and BSC group (range: 329 to 341 patients).



BAVENCIO[®] (avelumab)—dosing and administration **Recommended dose of BAVENCIO—800 mg intravenous infusion given over 60 minutes every 2 weeks until disease progression** or unacceptable toxicity

Management of some adverse reactions may require temporary interruption or permanent discontinuation.

Premedication

- **Premedicate patients** with an antihistamine and with acetaminophen prior to the first 4 infusions of BAVENCIO

SELECTED SAFETY INFORMATION

BAVENCIO 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 mild (Grade 1) or moderate (Grade 2) infusion-related reactions. Permanently discontinue BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) infusion-related reactions. Infusionrelated reactions occurred in 25% of patients, including three (0.2%) patients with Grade 4 and nine (0.5%) with Grade 3.

BAVENCIO 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 BAVENCIO and for at least 1 month after the last dose of BAVENCIO. It is not known whether BAVENCIO 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 BAVENCIO due to the potential for serious adverse reactions in breastfed infants.

A fatal adverse reaction (sepsis) occurred in one (0.3%) patient with locally advanced or metastatic urothelial carcinoma (UC) receiving BAVENCIO + best supportive care (BSC) as first-line maintenance treatment. In patients with previously treated locally advanced or metastatic UC, fourteen patients (6%) who were treated with BAVENCIO experienced either pneumonitis, respiratory failure, sepsis/urosepsis, cerebrovascular accident, or gastrointestinal adverse events, which led to death.

The most common adverse reactions (all grades, ≥20%) in patients with locally advanced or metastatic UC receiving BAVENCIO + BSC (vs BSC alone) as first-line maintenance treatment were fatigue (35% vs 13%), musculoskeletal pain (24% vs 15%), urinary tract infection (20% vs 11%), and rash (20% vs 2.3%). In patients with previously treated locally advanced or metastatic UC receiving BAVENCIO, the most common adverse reactions (all grades, ≥20%) were fatigue, infusion-related reaction, musculoskeletal pain, nausea, decreased appetite, and urinary tract infection.

Selected laboratory abnormalities (all grades, ≥20%) in patients with locally advanced or metastatic UC receiving BAVENCIO + BSC (vs BSC alone) as first-line maintenance treatment were blood triglycerides increased (34% vs 28%), alkaline phosphate increased (30% vs 20%), blood sodium decreased (28% vs 20%), lipase increased (25% vs 16%), aspartate aminotransferase (AST) increased (24% vs 12%), blood potassium increased (24% vs 16%), alanine aminotransferase (ALT) increased (24% vs 12%), blood cholesterol increased (22% vs 16%), serum amylase increased (21% vs 12%), hemoglobin decreased (28% vs 18%), and white blood cell decreased (20% vs 10%).

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.



Premedication should be administered for subsequent BAVENCIO doses based on clinical judgment and presence/severity of prior infusion reactions



JAVELIN Bladder 100 Trial—a Phase 3, randomized, open-label, multicenter study (N=700)²

Overall survival (OS) in all randomized patients, N=700 (major efficacy outcome measure)

Hazard ratio (HR): 0.69	21.4 months median OS	VS	14.3 months median OS
(95% CI: 0.56, 0.86);	BAVENCIO + BSC		BSC alone
2-sided P-value=0.001*	(95% Cl: 18.9, 26.1); n=350		(95% Cl: 12.9, 17.9); n=350

*P-value based on stratified log-rank.

OS in patients with PD-L1-positive tumors⁺ (major efficacy outcome measure)

(95% CI: 0.40, 0.79; 2-sided *P*-value < 0.001)

OS in patients with PD-L1-negative tumors⁺ (exploratory analysis)

• In patients with PD-L1-negative tumors (n=271, 39%), the OS hazard ratio was 0.85 (95% CI: 0.62, 1.18)

⁺Using the VENTANA PD-L1 (SP263) assay, PD-L1-positive status was defined as PD-L1 expression in ≥25% of tumor cells or in ≥25% or 100% of tumor-associated immune cells if the percentage of immune cells was >1% or ≤1%, respectively. If none of these criteria were met, PD-L1 status was considered negative.²

BAVENCIO warnings and precautions

- Immune-mediated pneumonitis
- Hepatotoxicity and immune-mediated hepatitis
- Immune-mediated colitis
- Immune-mediated endocrinopathies
- Immune-mediated nephritis and renal dysfunction
- Other severe and fatal immune-mediated adverse reactions
- Infusion-related reactions
- Embryo-fetal toxicity

See pages 4-5 for more information on **BAVENCIO** warnings and precautions.

CI=confidence interval; PD-L1=programmed death ligand-1.

References: 1. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Bladder Cancer V.6.2020. © National Comprehensive Cancer Network, Inc. 2020. All rights reserved. Accessed July 17, 2020. To view the most recent and complete version of the guidelines, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content or its use or application and disclaims any responsibility for its use or application in any way. 2. Data on file. Rockland, Mass: EMD Serono, Inc.

SELECTED SAFETY INFORMATION

BAVENCIO can cause immune-mediated pneumonitis, including fatal cases. Monitor patients for signs and symptoms of pneumonitis, and evaluate suspected cases with radiographic imaging. Administer corticosteroids for Grade 2 or greater pneumonitis. Withhold BAVENCIO for moderate (Grade 2) and permanently discontinue for severe (Grade 3), life-threatening (Grade 4), or recurrent moderate (Grade 2) pneumonitis. Pneumonitis occurred in 1.2% of patients, including one (0.1%) patient with fatal, one (0.1%) with Grade 4, and five (0.3%) with Grade 3.

Please see Selected Safety Information throughout and full Prescribing Information and Medication Guide starting on page 10.







The FIRST and ONLY immunotherapy approved for the maintenance treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) that has not progressed with first-line platinum-containing chemotherapy

• BAVENCIO + BSC demonstrated statistically significant improvement in OS vs BSC alone in patients with PD-L1-positive tumors (n=358, 51%), the hazard ratio was 0.56

Most common adverse reactions The most common adverse reactions (≥20%) in patients receiving BAVENCIO + BSC vs BSC alone were: • Urinary tract infection (20% vs 11%) • Fatigue (35% vs 13%) • Rash (20% vs 2.3%) • Musculoskeletal pain (24% vs 15%)

US/AVE/0320/0051c(1) August 2020

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BAVENCIO safely and effectively. See full prescribing information for BAVENCIO.

BAVENCIO[®] (avelumab) injection, for intravenous use Initial U.S. Approval: 2017

-----INDICATIONS AND USAGE------

BAVENCIO is a programmed death ligand-1 (PD-L1) blocking antibody indicated for:

Merkel Cell Carcinoma (MCC)

Adults and pediatric patients 12 years and older with metastatic MCC. This
indication is approved under accelerated approval based on tumor response
rate and duration of response. Continued approval for this indication may be
contingent upon verification and description of clinical benefit in
confirmatory trials. (1.1, 14.1)

Urothelial Carcinoma (UC)

- Maintenance treatment of patients with locally advanced or metastatic UC that has not progressed with first-line platinum-containing chemotherapy. (1.2, 14.2)
- Patients with locally advanced or metastatic UC who:
- Have disease progression during or following platinum-containing chemotherapy. (1.2 14.2)
- Have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy. (1.2, 14.2) Renal Cell Carcinoma (RCC)
- First-line treatment, in combination with axitinib, of patients with advanced RCC. (1.3, 14.3)

-----DOSAGE AND ADMINISTRATION------

- Premedicate for the first 4 infusions and subsequently as needed. (2.1)
- Merkel Cell Carcinoma: 800 mg every 2 weeks. (2.2)
- Urothelial Carcinoma; 800 mg every 2 weeks. (2.3)
- Renal Cell Carcinoma: 800 mg every 2 weeks in combination with axitinib 5 mg orally twice daily. (2.4)

Administer BAVENCIO as an intravenous infusion over 60 minutes

-----DOSAGE FORMS AND STRENGTHS-----

Injection: 200 mg/10 mL (20 mg/mL) solution in single-dose vial. (3)

None. (4)

2

-----CONTRAINDICATIONS------

FULL PRESCRIBING INFORMATION: CONTENTS*

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- 2.2 Recommended Dosage for MCC
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----WARNINGS AND PRECAUTIONS---

- Immune-mediated pneumonitis: Withhold for moderate pneumonitis; permanently discontinue for severe, life-threatening, or recurrent moderate pneumonitis. (5.1)
- Hepatotoxicity and immune-mediated hepatitis: Monitor for changes in liver function. Withhold for moderate hepatitis; permanently discontinue for severe or life-threatening hepatitis. (5.2)
- Immune-mediated colitis: Withhold for moderate or severe colitis; permanently discontinue for life-threatening or recurrent severe colitis. (5.3)
- Immune-mediated endocrinopathies: Withhold for severe or life-threatening endocrinopathies. (5.4)
- Immune-mediated nephritis and renal dysfunction: Withhold for moderate or severe nephritis and renal dysfunction; permanently discontinue for life-threatening nephritis or renal dysfunction. (5.5)
- Infusion-related reactions: Interrupt or slow the rate of infusion for mild or moderate infusion-related reactions. Stop the infusion and permanently discontinue BAVENCIO for severe or life-threatening infusion-related reactions. (5.7)
- Major adverse cardiovascular events: Optimize management of cardiovascular risk factors. Discontinue BAVENCIO in combination with axitinib for Grade 3-4 events. (5.8)
- Embryo-fetal toxicity: BAVENCIO can cause fetal harm. Advise of potential risk to a fetus and use of effective contraception. (5.9, 8.1, 8.3)

-----ADVERSE REACTIONS------

- Most common adverse reactions ($\geq 20\%$) in patients were: • <u>MCC</u>: fatigue, musculoskeletal pain, diarrhea, nausea, infusion-related
- reaction, rash, decreased appetite, and peripheral edema. (6.1)<u>UC</u>:
 - Maintenance treatment: fatigue, musculoskeletal pain, urinary tract infection, and rash. (6.1)
 - Previously-treated: fatigue, infusion-related reaction, musculoskeletal pain, nausea, decreased appetite, and urinary tract infection. (6.1)
- <u>RCC (with axitinib)</u>: diarrhea, fatigue, hypertension, musculoskeletal pain, nausea, mucositis, palmar-plantar erythrodysesthesia, dysphonia, decreased appetite, hypothyroidism, rash, hepatotoxicity, cough, dyspnea, abdominal pain, and headache. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact EMD Serono at 1-800-283-8088 ext. 5563 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

1.1 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). This indication is approved under accelerated approval based on tumor response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials *[see Clinical Studies (14.1)]*.

1.2 Locally Advanced or Metastatic Urothelial Carcinoma

First-Line Maintenance Treatment of Urothelial Carcinoma

BAVENCIO is indicated for the maintenance treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) that has not progressed with first-line platinum-containing chemotherapy *[see Clinical Studies (14.2)]*.

Previously-Treated Urothelial Carcinoma

BAVENCIO is indicated for the treatment of patients with locally advanced or metastatic urothelial carcinoma (UC) who:

- Have disease progression during or following platinum-containing chemotherapy
- Have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy *[see Clinical Studies (14.2)]*.

1.3 Advanced Renal Cell Carcinoma

BAVENCIO in combination with axitinib is indicated for the first-line treatment of patients with advanced renal cell carcinoma (RCC) *[see Clinical Studies (14.3)]*.

2 DOSAGE AND ADMINISTRATION

2.1 Premedication

Premedicate patients with an antihistamine and with acetaminophen prior to the first 4 infusions of BAVENCIO. Premedication should be administered for subsequent BAVENCIO doses based upon clinical judgment and presence/severity of prior infusion reactions [see Dosage and Administration (2.5) and Warnings and Precautions (5.7)].

2.2 Recommended Dosage for MCC

The recommended dose of BAVENCIO is 800 mg administered as an intravenous infusion over 60 minutes every 2 weeks until disease progression or unacceptable toxicity.

2.3 Recommended Dosage for UC

The recommended dose of BAVENCIO is 800 mg administered as an intravenous infusion over 60 minutes every 2 weeks until disease progression or unacceptable toxicity.

2.4 Recommended Dosage for RCC

The recommended dose of BAVENCIO is 800 mg administered as an intravenous infusion over 60 minutes every 2 weeks in combination with axitinib 5 mg orally taken twice daily (12 hours apart) with or without food until disease progression or unacceptable toxicity.

When axitinib is used in combination with BAVENCIO, dose escalation of axitinib above the initial 5 mg dose may be considered at intervals of two weeks or longer. Review the Full Prescribing Information for axitinib prior to initiation.

2.5 Dose Modifications

Recommended dose modifications of BAVENCIO for adverse reactions are provided in Table 1. Detailed information regarding clinical and laboratory monitoring guidelines for early detection of adverse reactions of BAVENCIO and recommended management (immunosuppressant treatment guidelines) are described in Warnings and Precautions (5).

Treatment-Related Adverse	Severity of Adverse	Dose Modification
Reaction	Reactions	
Pneumonitis [see Warnings and Precautions (5.1)]	Grade 2 pneumonitis	Withhold BAVENCIO.
		Resume BAVENCIO in
		patients with complete or
		partial resolution (Grade 0
		to 1) of pneumonitis after
		corticosteroid taper.
	Grade 3 or 4 pneumonitis	Permanently discontinue.
	or recurrent Grade 2 pneumonitis	
Hepatitis [see Warnings and	Aspartate aminotransferase	Withhold BAVENCIO.
Precautions (5.2)]	(AST)/or alanine	
	aminotransferase (ALT)	Resume BAVENCIO in
For BAVENCIO in combination	more than 3 and up to	patients with complete or
with axitinib, see below.	5 times the upper limit of	partial resolution (Grade 0
	normal or total bilirubin	to 1) of hepatitis after
	more than 1.5 and up to	corticosteroid taper.
	3 times the upper limit of	
	normal	
	AST or ALT more than	Permanently discontinue.
	5 times the upper limit of	
	normal or total bilirubin	
	more than 3 times the	
	upper limit of normal	
Colitis [see Warnings and	Grade 2 or 3 diarrhea or	Withhold BAVENCIO.
Precautions (5.3)]	colitis	
		Resume BAVENCIO in
		patients with complete or
		partial resolution (Grade 0
		to 1) of colitis or diarrhea
		after corticosteroid taper.

Table 1: Recommended Dose Modifications of BAVENCIO for Adverse Reactions

Treatment-Related Adverse Reaction	Severity of Adverse Reactions	Dose Modification
	Grade 4 diarrhea or colitis or recurrent Grade 3 diarrhea or colitis	Permanently discontinue.
Endocrinopathies (including but not limited to hypothyroidism, hyperthyroidism, adrenal insufficiency, hyperglycemia) [see Warnings and Precautions (5.4)]	Grade 3 or 4	Withhold BAVENCIO. Resume BAVENCIO in patients with complete or partial resolution (Grade 0 to 1) of endocrinopathies after corticosteroid taper.
Nephritis and Renal Dysfunction [see Warnings and Precautions (5.5)]	Serum creatinine more than 1.5 and up to 6 times the upper limit of normal Serum creatinine more than 6 times the upper	Withhold BAVENCIO. Resume BAVENCIO in patients with complete or partial resolution (Grade 0 to 1) of nephritis and renal dysfunction after corticosteroid taper. Permanently discontinue.
Other immune-mediated adverse reactions (including but not limited to myocarditis, pancreatitis, myositis, psoriasis, arthritis, exfoliative dermatitis, erythema multiforme, pemphigoid, hypopituitarism, uveitis, Guillain-Barré syndrome, bullous dermatitis,	 limit of normal For any of the following: Moderate or severe clinical signs or symptoms of an immune-mediated adverse reaction not described above Grade 3 or 4 endocrinopathies 	Withhold BAVENCIO pending clinical evaluation. Resume BAVENCIO in patients with complete or partial resolution (Grade 0 to 1) of other immune- mediated adverse reactions after corticosteroid taper.

Treatment-Related Adverse Reaction	Severity of Adverse Reactions	Dose Modification
Stevens Johnson Syndrome (SJS)/toxic epidermal necrolysis (TEN), rhabdomyolysis, myasthenia gravis, histiocytic necrotizing lymphadenitis, demyelination, vasculitis, hemolytic anemia, hypophysitis, iritis, and encephalitis)* [see Warnings and Precautions (5.6)]	 For any of the following: Life-threatening adverse reaction (excluding endocrinopathies) Recurrent severe immune-mediated adverse reaction Requirement for 10 mg per day or greater prednisone or equivalent for more than 12 weeks Persistent Grade 2 or 3 immune-mediated adverse reactions lasting 12 weeks or longer 	Permanently discontinue.
Infusion-related reaction [see Warnings and Precautions	Grade 1 or 2	Interrupt or slow the rate of infusion.
(5.7)]	Grade 3 or 4	Permanently discontinue.

* Observed with BAVENCIO or with other anti-PD-1/PD-L1 monoclonal antibodies.

In patients with RCC being treated with BAVENCIO in combination with axitinib:

- If ALT or AST ≥ 3 times ULN but < 5 times ULN or total bilirubin ≥ 1.5 times ULN but < 3 times ULN, withhold both BAVENCIO and axitinib until these adverse reactions recover to Grades 0-1. If persistent (greater than 5 days), consider corticosteroid therapy [initial dose of 0.5 to 1 mg/kg/day] prednisone or equivalent followed by a taper. Consider rechallenge with a single drug or sequential rechallenge with both drugs after recovery. Dose reduce per the axitinib Full Prescribing Information if rechallenging with axitinib.
- If ALT or AST ≥ 5 times ULN or > 3 times ULN with concurrent total bilirubin ≥ 2 times ULN or total bilirubin ≥ 3 times ULN, permanently discontinue both BAVENCIO and axitinib and consider corticosteroid therapy [initial dose 1 to 2 mg/kg/day prednisone or equivalent followed by a taper].

When BAVENCIO is administered in combination with axitinib, review the axitinib Full Prescribing Information for recommended dose modifications for axitinib.

2.6 Preparation and Administration

Preparation

- Visually inspect vial for particulate matter and discoloration. BAVENCIO is a clear, colorless to slightly yellow solution. Discard vial if the solution is cloudy, discolored, or contains particulate matter.
- Withdraw the required volume of BAVENCIO from the vial(s) and inject it into a 250 mL infusion bag containing either 0.9% Sodium Chloride Injection or 0.45% Sodium Chloride Injection.
- Gently invert the bag to mix the diluted solution and avoid foaming or excessive shearing.
- Inspect the solution to ensure it is clear, colorless, and free of visible particles.
- Discard any partially used or empty vials.

Storage of diluted BAVENCIO solution Protect from light.

Store diluted BAVENCIO solution:

- At room temperature up to 77° F (25°C) for no more than 4 hours from the time of dilution. Or
- Under refrigeration at 36°F to 46°F (2°C to 8°C) for no more than 24 hours from the time of dilution. If refrigerated, allow the diluted solution to come to room temperature prior to administration.

Do not freeze or shake diluted solution.

Administration

- Administer the diluted solution over 60 minutes through an intravenous line containing a sterile, non-pyrogenic, low protein binding in-line filter (pore size of 0.2 micron).
- Do not co-administer other drugs through the same intravenous line.

3 DOSAGE FORMS AND STRENGTHS

Injection: 200 mg/10 mL (20 mg/mL), clear, colorless to slightly yellow solution in a single-dose vial.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Immune-Mediated Pneumonitis

BAVENCIO can cause immune-mediated pneumonitis, including fatal cases [see Adverse *Reactions (6.1)*]. Monitor patients for signs and symptoms of pneumonitis and evaluate patients with suspected pneumonitis with radiographic imaging. Administer corticosteroids (initial dose of 1 to 2 mg/kg/day prednisone or equivalent, followed by a corticosteroid taper) for Grade 2 or greater pneumonitis. Withhold BAVENCIO for moderate (Grade 2) pneumonitis, and permanently discontinue for severe (Grade 3), life-threatening (Grade 4), or recurrent moderate (Grade 2) pneumonitis [see Dosage and Administration (2.5)].

Pneumonitis occurred in 1.2% of patients receiving BAVENCIO including one (0.1%) patient with fatal, one (0.1%) with Grade 4, and five (0.3%) with Grade 3 pneumonitis. Immunemediated pneumonitis led to permanent discontinuation of BAVENCIO in 0.3% of patients. Among the 21 patients with immune-mediated pneumonitis, the median time to onset was 2.5 months (range: 3 days to 11 months) and the median duration of pneumonitis was 7 weeks (range: 4 days to 4+ months). All 21 patients were treated with systemic corticosteroids; 17 (81%) of the 21 patients received high-dose corticosteroids for a median of 8 days (range: 1 day to 2.3 months). Resolution of pneumonitis occurred in 12 (57%) of the 21 patients at the time of data cut-off.

5.2 Hepatotoxicity and Immune-Mediated Hepatitis

BAVENCIO can cause immune-mediated hepatitis including fatal cases [see Adverse Reactions (6.1)]. Monitor patients for abnormal liver tests prior to and periodically during treatment. Administer corticosteroids (initial dose of 1 to 2 mg/kg/day prednisone or equivalent, followed by a corticosteroid taper) for Grade 2 or greater hepatitis. Withhold BAVENCIO for moderate (Grade 2) immune-mediated hepatitis until resolution and permanently discontinue for severe (Grade 3) or life-threatening (Grade 4) immune-mediated hepatitis [see Dosage and Administration (2.5)].

BAVENCIO as a Single Agent

Immune-mediated hepatitis occurred in 0.9% of patients receiving BAVENCIO including two (0.1%) patients with fatal and 11 (0.6%) patients with Grade 3 immune-mediated hepatitis. Immune-mediated hepatitis led to permanent discontinuation of BAVENCIO in 0.5% of patients. Among the 16 patients with immune-mediated hepatitis, the median time to onset was 3.2 months (range: 1 week to 15 months), and the median duration of hepatitis was 2.5 months (range: 1 day to 7.4+ months). All 16 patients were treated with corticosteroids; 15 (94%) of the 16 patients received high-dose corticosteroids for a median of 14 days (range: 1 day to 2.5 months). Resolution of hepatitis occurred in nine (56%) of the 16 patients at the time of data cut-off.

BAVENCIO with Axitinib

BAVENCIO in combination with axitinib can cause hepatotoxicity with higher than expected frequencies of Grade 3 and 4 ALT and AST elevation. Consider more frequent monitoring of liver enzymes as compared to when the drugs are used as monotherapy. Withhold BAVENCIO and axitinib for moderate (Grade 2) hepatotoxicity and permanently discontinue the combination

for severe or life-threatening (Grade 3 or 4) hepatotoxicity. Administer corticosteroids as needed *[see Dosage and Administration (2.5)]*.

In patients treated with BAVENCIO in combination with axitinib in the advanced RCC trials, Grades 3 and 4 increased ALT and increased AST were reported in 9% and 7% of patients, respectively. In patients with $ALT \ge 3$ times ULN (Grades 2-4, n=82), ALT resolved to Grades 0-1 in 92%. Among the 73 patients who were rechallenged with either BAVENCIO (59%) or axitinib (85%) monotherapy or with both (55%), 66% had no recurrence of $ALT \ge 3$ times ULN. Immune-mediated hepatitis was reported in 7% of patients including 4.9% with Grade 3 or 4 immune-mediated hepatitis. Hepatotoxicity led to permanent discontinuation in 6.5% and immune-mediated hepatitis led to permanent discontinuation of either BAVENCIO or axitinib in 5.3% of patients. Among the 35 patients with immune-mediated hepatitis, the median time to onset was 2.8 months (range: 2.1 weeks to 14.5 months) and the median duration of hepatitis was 15 days (range: 2 days to 9 months). Thirty-four patients were treated with corticosteroids and one patient was treated with a non-steroidal immunosuppressant; 33 patients received high-dose corticosteroids for a median of 21 days (range: 4 days to 3 months). Resolution of hepatitis occurred in 31 of the 35 patients at the time of data cut-off.

5.3 Immune-Mediated Colitis

BAVENCIO can cause immune-mediated colitis *[see Adverse Reactions (6.1)]*. Monitor patients for signs and symptoms of colitis. Administer corticosteroids (initial dose of 1 to 2 mg/kg/day prednisone or equivalent followed by a corticosteroid taper) for Grade 2 or greater colitis. Withhold BAVENCIO for moderate or severe (Grade 2 or 3) colitis until resolution. Permanently discontinue BAVENCIO for life-threatening (Grade 4) or for recurrent (Grade 3) colitis upon reinitiation of BAVENCIO *[see Dosage and Administration (2.5)]*.

Immune-mediated colitis occurred in 1.5% of patients receiving BAVENCIO including seven (0.4%) patients with Grade 3 colitis. Immune-mediated colitis led to permanent discontinuation of BAVENCIO in 0.5% of patients. Among the 26 patients with immune-mediated colitis, the median time to onset was 2.1 months (range: 2 days to 11 months) and the median duration of colitis was 6 weeks (range: 1 day to 14+ months). All 26 patients were treated with corticosteroids; 15 (58%) of the 26 patients received high-dose corticosteroids for a median of 19 days (range: 1 day to 2.3 months). Resolution of colitis occurred in 18 (70%) of the patients at the time of data cut-off.

5.4 Immune-Mediated Endocrinopathies

BAVENCIO can cause immune-mediated endocrinopathies [see Adverse Reactions (6.1)].

Adrenal Insufficiency

Monitor patients for signs and symptoms of adrenal insufficiency during and after treatment. Administer corticosteroids as appropriate for adrenal insufficiency. Withhold BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) adrenal insufficiency [see Dosage and Administration (2.5)].

Adrenal insufficiency occurred in 0.5% of patients receiving BAVENCIO including one patient (0.1%) with Grade 3 adrenal insufficiency. Immune-mediated adrenal insufficiency led to

permanent discontinuation of BAVENCIO in 0.1% of patients. Among the 8 patients with immune-mediated adrenal insufficiency, the median time to onset was 2.5 months (range: 1 day to 8 months). All eight patients were treated with corticosteroids; four (50%) of the eight patients received high-dose corticosteroids for a median of 1 day (range: 1 day to 24 days).

Thyroid Disorders (Hypothyroidism/Hyperthyroidism)

BAVENCIO can cause immune-mediated thyroid disorders. Thyroid disorders can occur at any time during treatment. Monitor patients for changes in thyroid function at the start of treatment, periodically during treatment, and as indicated based on clinical evaluation. Manage hypothyroidism with hormone-replacement therapy. Initiate medical management for control of hyperthyroidism. Withhold BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) thyroid disorders *[see Dosage and Administration (2.5)]*.

Immune-mediated thyroid disorders occurred in 6% of patients receiving BAVENCIO including 3 (0.2%) Grade 3 immune-mediated thyroid disorders. Immune-mediated thyroid disorders led to discontinuation of BAVENCIO in 0.1% of patients. Hypothyroidism occurred in 90 (5%) patients; hyperthyroidism in seven (0.4%) patients; and thyroiditis in four (0.2%) patients treated with BAVENCIO. Among the 98 patients with immune-mediated thyroid disorders, the median time to onset was 2.8 months (range: 2 weeks to 13 months) and the median duration was not estimable (range: 6 days to more than 26 months). Immune-mediated thyroid disorders resolved in seven (7%) of the 98 patients.

Type 1 Diabetes Mellitus

BAVENCIO can cause type 1 diabetes mellitus, including diabetic ketoacidosis. Monitor patients for hyperglycemia or other signs and symptoms of diabetes. Withhold BAVENCIO and administer anti-hyperglycemics or insulin in patients with severe or life-threatening (Grade \geq 3) hyperglycemia. Resume treatment with BAVENCIO when metabolic control is achieved on insulin replacement or anti-hyperglycemics [see Dosage and Administration (2.5)].

Type 1 diabetes mellitus without an alternative etiology occurred in 0.1% of patients including two cases of Grade 3 hyperglycemia that led to permanent discontinuation of BAVENCIO.

5.5 Immune-Mediated Nephritis and Renal Dysfunction

BAVENCIO can cause immune-mediated nephritis [see Adverse Reactions (6.1)]. Monitor patients for elevated serum creatinine prior to and periodically during treatment. Administer corticosteroids (initial dose of 1 to 2 mg/kg/day prednisone or equivalent followed by a corticosteroid taper) for Grade 2 or greater nephritis. Withhold BAVENCIO for moderate (Grade 2) or severe (Grade 3) nephritis until resolution to \leq Grade 1. Permanently discontinue BAVENCIO for life-threatening (Grade 4) nephritis [see Dosage and Administration (2.5)].

Immune-mediated nephritis occurred in 0.1% of patients receiving BAVENCIO; BAVENCIO was permanently discontinued in this patient.

5.6 Other Immune-Mediated Adverse Reactions

BAVENCIO can result in severe and fatal immune-mediated adverse reactions *[see Adverse Reactions (6.1)]*. These immune-mediated reactions may involve any organ system. Most immune-mediated reactions initially manifest during treatment with BAVENCIO; however, immune-mediated adverse reactions can occur after discontinuation of BAVENCIO.

For suspected immune-mediated adverse reactions, evaluate to confirm or rule out an immunemediated adverse reaction and to exclude other causes. Depending upon the severity of the adverse reaction, withhold or permanently discontinue BAVENCIO, administer high dose corticosteroids, and if appropriate, initiate hormone replacement therapy. Upon improvement to Grade 1 or less, initiate corticosteroid taper. Resume BAVENCIO when the immune-mediated adverse reaction remains at Grade 1 or less following corticosteroid taper. Permanently discontinue BAVENCIO for any severe (Grade 3) immune-mediated adverse reaction that recurs and for any life-threatening immune-mediated adverse reaction *[see Dosage and Administration* (2.5)].

The following clinically significant, immune-mediated adverse reactions occurred at an incidence of less than 1% of patients who received BAVENCIO as a single agent or in 489 patients who received BAVENCIO in combination with axitinib: immune-mediated myocarditis including fatal cases, pancreatitis including fatal cases, immune-mediated myositis, psoriasis, arthritis, exfoliative dermatitis, erythema multiforme, pemphigoid, hypopituitarism, uveitis, Guillain-Barré syndrome, and systemic inflammatory response. The following clinically significant, immune-mediated adverse reactions have been reported with other products in this class: bullous dermatitis, Stevens Johnson Syndrome (SJS)/toxic epidermal necrolysis (TEN), rhabdomyolysis, myasthenia gravis, histiocytic necrotizing lymphadenitis, demyelination, vasculitis, hemolytic anemia, hypophysitis, iritis, and encephalitis.

5.7 Infusion-Related Reactions

BAVENCIO can cause severe or life-threatening infusion-related reactions [see Adverse Reactions (6.1)]. Premedicate with antihistamine and acetaminophen prior to the first 4 infusions. 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 mild or moderate infusion-related reactions. Stop the infusion and permanently discontinue BAVENCIO for severe (Grade 3) or life-threatening (Grade 4) infusion-related reactions [see Dosage and Administration (2.5) and Adverse Reactions (6.1)].

Infusion-related reactions occurred in 25% of patients treated with BAVENCIO including three (0.2%) Grade 4 and nine (0.5%) Grade 3 infusion-related reactions. Ninety-three percent of patients received premedication with antihistamine and acetaminophen. Eleven (92%) of the 12 patients with Grade \geq 3 reactions were treated with intravenous corticosteroids. Fourteen percent of patients had infusion-related reactions that occurred after the BAVENCIO infusion was completed.

5.8 Major Adverse Cardiovascular Events (MACE)

BAVENCIO in combination with axitinib can cause severe and fatal cardiovascular events. Consider baseline and periodic evaluations of left ventricular ejection fraction. Monitor for signs and symptoms of cardiovascular events. Optimize management of cardiovascular risk factors, such as hypertension, diabetes, or dyslipidemia. Discontinue BAVENCIO and axitinib for Grade 3-4 cardiovascular events.

MACE occurred in 7% of patients with advanced RCC treated with BAVENCIO in combination with axitinib compared to 3.4% treated with sunitinib in a randomized trial, JAVELIN Renal 101. These events included death due to cardiac events (1.4%), Grade 3-4 myocardial infarction (2.8%), and Grade 3-4 congestive heart failure (1.8%). Median time to onset of MACE was 4.2 months (range: 2 days to 24.5 months).

5.9 Embryo-Fetal Toxicity

Based on its mechanism of action, BAVENCIO can cause fetal harm when administered to a pregnant woman. Animal studies have demonstrated that inhibition of the PD-1/PD-L1 pathway can lead to increased risk of immune-mediated rejection of the developing fetus resulting in fetal death. If this drug is used during pregnancy, or if the patient becomes pregnant while taking BAVENCIO, inform the patient of the potential risk to a fetus. Advise females of childbearing potential to use effective contraception during treatment with BAVENCIO and for at least one month after the last dose of BAVENCIO [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS

The following adverse reactions are described elsewhere in the label:

- Immune-mediated pneumonitis [see Warnings and Precautions (5.1)]
- Hepatotoxicity and immune-mediated hepatitis [see Warnings and Precautions (5.2)]
- Immune-mediated colitis [see Warnings and Precautions (5.3)]
- Immune-mediated endocrinopathies [see Warnings and Precautions (5.4)]
- Immune-mediated nephritis and renal dysfunction [see Warnings and Precautions (5.5)]
- Other immune-mediated adverse reactions [see Warnings and Precautions (5.6)]
- Infusion-related reactions [see Warnings and Precautions (5.7)]
- Major adverse cardiovascular events [see Warnings and Precautions (5.8)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The data described in the WARNINGS AND PRECAUTIONS section reflect exposure to BAVENCIO 10 mg/kg intravenously every 2 weeks as a single agent in 1738 patients enrolled in the JAVELIN Merkel 200 and JAVELIN Solid Tumor trials and to BAVENCIO 10 mg/kg intravenously every 2 weeks in combination with axitinib 5 mg orally twice daily in 489 patients enrolled in the JAVELIN Renal 100 and JAVELIN Renal 101 trials. In the BAVENCIO monotherapy population, 24% of patients were exposed for \geq 6 months and 7% were exposed for \geq 12 months. The population characteristics of BAVENCIO in combination with axitinib are shown below. When BAVENCIO was used in combination with axitinib, 70% of patients were exposed for ≥ 6 months and 31% were exposed for ≥ 12 months. The following criteria were used to classify an adverse reaction as immune-mediated: onset within 90 days after last dose of BAVENCIO, no spontaneous resolution within 7 days of onset, treatment with corticosteroids or other immunosuppressant or hormone replacement therapy, biopsy consistent with immune-mediated reaction, and no other clear etiology.

Metastatic Merkel Cell Carcinoma

The data described below reflect exposure to BAVENCIO 10 mg/kg intravenously every 2 weeks in 88 patients with metastatic MCC enrolled in the JAVELIN Merkel 200 trial. Patients with any of the following were excluded: autoimmune disease; medical conditions requiring systemic immunosuppression; prior organ or allogeneic stem cell transplantation; prior treatment with anti-PD-1, anti-PD-L1, or anti-CTLA-4 antibodies; central nervous system (CNS) metastases; infection with HIV, hepatitis B, or hepatitis C; or ECOG performance score ≥ 2 .

The median duration of exposure to BAVENCIO was 4 months (range: 2 weeks to 21 months). Forty percent of patients received BAVENCIO for more than 6 months and 14% were treated for more than one year *[see Clinical Studies (14.1)]*. The study population characteristics were: median age of 73 years (range: 33 to 88), 74% male, 92% White, ECOG performance score of 0 (56%) or 1 (44%), and 65% of patients had one prior anti-cancer therapy for metastatic MCC and 35% had two or more prior therapies.

BAVENCIO was permanently discontinued for adverse reactions in six (7%) patients; adverse reactions resulting in permanent discontinuation were ileus, Grade 3 transaminitis, Grade 3 creatine kinase elevation, tubulointerstitial nephritis, and Grade 3 pericardial effusion. BAVENCIO was temporarily discontinued in 21 (24%) patients for adverse events, excluding temporary dose interruption for infusion-related reactions where infusion was restarted the same day. The most common adverse reaction requiring dose interruption was anemia. Serious adverse reactions that occurred in more than one patient were acute kidney injury, anemia, abdominal pain, ileus, asthenia, and cellulitis. The most common adverse reactions ($\geq 20\%$) were fatigue, musculoskeletal pain, diarrhea, nausea, infusion-related reaction, rash, decreased appetite, and peripheral edema.

Table 2 and Table 3 summarize the incidence of adverse reactions and laboratory abnormalities, respectively, that occurred in patients receiving BAVENCIO.

	Adverse Reactions		ENCIO =88)
General DisordersFatigue ^a 502Infusion-related reaction ^b 220Peripheral edema ^c 200Musculoskeletal and Connective Tissue DisordersMusculoskeletal pain ^d 322Musculoskeletal pain ^d 322Arthralgia161Gastrointestinal DisordersDiarrhea230Nausea220Constipation171Abdominal pain ^e 162Vomiting130Skin and Subcutaneous Tissue DisordersDiarrhesDecreased appetite202Decreased appetite202Decreased weight150Respiratory, Thoracic and Mediastinal DisordersCoughCough180Dyspnea ^h 111Nervous System Disorders14Dizziness140Headache100		All Grades	Grade 3-4
Fatiguea502Infusion-related reactionb220Peripheral edemac200Musculoskeletal and Connective Tissue Disorders0Musculoskeletal paind322Arthralgia161Gastrointestinal Disorders0Diarrhea230Nausea220Constipation171Abdominal painc162Vomiting130Skin and Subcutaneous Tissue Disorders0Rashf220Pruritusg100Metabolism and Nutrition Disorders0Decreased appetite202Decreased weight150Respiratory, Thoracic and Mediastinal Disorders0Cough180Dyspneah111Nervous System Disorders14Dizziness140Headache100		%	%
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Respiratory, Thoracic and Mediastinal DisordersCough180Dyspneah111Nervous System Disorders11Dizziness140Headache100Vascular Disorders	Decreased appetite	20	2
Cough180Dyspneah111Nervous System Disorders11Dizziness140Headache100Vascular Disorders14	Decreased weight	15	0
Dyspneah111Nervous System Disorders111Dizziness140Headache100Vascular Disorders10	Respiratory, Thoracic and Mediast	inal Disorders	
Nervous System DisordersDizziness14Dizziness10Headache10Vascular Disorders		18	0
Dizziness140Headache100Vascular Disorders		11	1
Dizziness140Headache100Vascular Disorders	Nervous System Disorders		
Vascular Disorders		14	0
	Headache	10	0
Hypertension 13 6	Vascular Disorders		
	Hypertension	13	6

Table 2: Adverse Reactions in ≥ 10% of Patients Receiving BAVENCIO in the JAVELIN Merkel 200 Trial

^a Fatigue is a composite term that includes fatigue and asthenia.

^b Infusion-related reaction is a composite term that includes drug hypersensitivity, hypersensitivity, chills, pyrexia, back pain, and hypotension.

^c Peripheral edema is a composite term that includes peripheral edema and peripheral swelling.

^d Musculoskeletal pain is a composite term that includes back pain, myalgia, neck pain, pain in extremity.

^e Abdominal pain is a composite term that includes abdominal pain and abdominal pain upper.

^f Rash is a composite term that includes rash maculo-papular, erythema, and dermatitis bullous.

^g Pruritus is a composite term that includes pruritus and pruritus generalized.

^h Dyspnea is a composite term that includes dyspnea and dyspnea exertional.

Table 3: Selected Treatment-Emergent* Laboratory Abnormalities in Patients Receiving BAVENCIO in the JAVELIN Merkel 200 Trial

Laboratory Tests	Any Grade (N=88) %	Grade 3-4 (N=88) %
Chemistry		
Increased aspartate aminotransferase (AST)	34	1
Increased alanine aminotransferase (ALT)	20	5
Increased lipase	14	4
Increased amylase	8	1
Increased bilirubin	6	1
Hyperglycemia**	-	7
Hematology		
Anemia	35	9
Lymphopenia	49	19
Thrombocytopenia	27	1
Neutropenia	6	1

* Treatment emergent consists of new onset of laboratory abnormality or worsening of baseline laboratory abnormality.

** Hyperglycemia limited to Grade \geq 3 events since fasting measurements were not obtained routinely.

Locally Advanced or Metastatic Urothelial Carcinoma

First-Line Maintenance Treatment of Urothelial Carcinoma

The safety of BAVENCIO was evaluated in the JAVELIN Bladder 100 trial where patients received BAVENCIO 10 mg/kg every 2 weeks plus best supportive care (BSC) (N=344) or BSC alone (N=345). Patients with autoimmune diseases or conditions requiring systemic immunosuppression were excluded.

In the BAVENCIO plus BSC arm, 47% were exposed to BAVENCIO for > 6 months and 28% were exposed for > 1 year [see Clinical Studies (14.2)].

The median age of patients treated with BAVENCIO plus BSC was 69 years (range: 37 to 90), 63% of patients were 65 years or older, 76% were male, 67% were White, and the ECOG performance score was 0 (61%) or 1 (39%).

A fatal adverse reaction (sepsis) occurred in one (0.3%) patient receiving BAVENCIO plus BSC.

Serious adverse reactions occurred in 28% of patients receiving BAVENCIO plus BSC. Serious adverse reactions in \geq 1% of patients included urinary tract infection (including kidney infection, pyelonephritis, and urosepsis) (6.1%), pain (including abdominal, back, bone, flank, extremity, and pelvic pain) (3.2%), acute kidney injury (1.7%), hematuria (1.5%), sepsis (1.2%), and infusion-related reaction (1.2%).

Permanent discontinuation due to an adverse reaction of BAVENCIO plus BSC occurred in 12% of patients. Adverse reactions resulting in permanent discontinuation of BAVENCIO in > 1% of

patients were myocardial infarction (including acute myocardial infarction and troponin T increased) (1.5%) and infusion-related reaction (1.2%).

Dose interruptions due to an adverse reaction, excluding temporary interruptions of BAVENCIO infusions due to infusion-related reactions, occurred in 41% of patients receiving BAVENCIO plus BSC. Adverse reactions leading to interruption of BAVENCIO in > 2% of patients were urinary tract infection (including pyelonephritis) (4.7%) and blood creatinine increased (including acute kidney injury, renal impairment, and renal failure) (3.8%).

The most common adverse reactions ($\geq 20\%$) in patients receiving BAVENCIO plus BSC were fatigue, musculoskeletal pain, urinary tract infection, and rash.

Thirty-one (9%) patients treated with BAVENCIO plus BSC received an oral prednisone dose equivalent to \geq 40 mg daily for an immune-mediated adverse reaction [see Warnings and *Precautions (5)*].

Table 4 summarizes adverse reactions that occurred in $\ge 10\%$ of patients treated with BAVENCIO plus BSC.

Table 4: Adverse Reactions (≥ 10%) of Patients Receiving BAVENCIO plus BSC (JAVELIN Bladder 100 Trial)

Adverse Reactions	BAVENCIO plus BSC (N=344)		BSC (N=345)	
	All Grades	Grade 3-4	All Grades	Grade 3-4
	%	%	%	%
General Disorders and Administration	n Site Conditi	ons		
Fatigue ^a	35	1.7	13	1.7
Pyrexia	15	0.3	3.5	0
Musculoskeletal and Connective Tissu	e Disorders			
Musculoskeletal pain ^b	24	1.2	15	2.6
Arthralgia	16	0.6	6	0
Skin and Subcutaneous Tissue Disord	ers		•	
Rash ^c	20	1.2	2.3	0
Pruritus	17	0.3	1.7	0
Infections and Infestations	-			
Urinary tract infection ^d	20	6	11	3.8
Gastrointestinal Disorders				
Diarrhea	17	0.6	4.9	0.3
Constipation	16	0.6	9.0	0
Nausea	16	0.3	6	0.6
Vomiting	13	1.2	3.5	0.6
Respiratory, Thoracic and Mediastina	al Disorders			
Cough ^e	14	0.3	4.6	0
Metabolism and Nutrition Disorders				
Decreased appetite	14	0.3	7	0.6
Endocrine disorders				
Hypothyroidism	12	0.3	0.6	0
Injury, Poisoning and Procedural Cor	nplications			
Infusion-related reaction	10	0.9	0	0

^a Fatigue is a composite term that includes fatigue, asthenia and malaise.

^b Musculoskeletal pain is a composite term that includes musculoskeletal pain, back pain, myalgia, and neck pain.
^c Rash is a composite term that includes rash, rash maculo-papular, erythema, dermatitis acneiform, eczema,

erythema multiforme, rash erythematous, rash macular, rash papular, rash pruritic, drug eruption and lichen planus. ^d Urinary tract infection is a composite term that includes urinary tract infection, urosepsis, cystitis, kidney infection, pyuria, pyelonephritis, bacteriuria, pyelonephritis acute, urinary tract infection bacterial, and Escherichia urinary tract infection.

^e Cough is a composite term that includes cough and productive cough.

Patients received pre-medication with an anti-histamine and acetaminophen prior to each infusion. Infusion-related reactions occurred in 10% (Grade 3: 0.9%) of patients treated with BAVENCIO plus BSC.

Table 5: Selected Laboratory Abnormalities Worsening from Baseline Occurring in ≥ 10% of Patients Receiving BAVENCIO plus BSC (JAVELIN Bladder 100 Trial)

Laboratory Abnormality	BAVENCIC) plus BSC*	BSC*		
	Any Grade	Grade 3-4	Any Grade	Grade 3-4	
	%	%	%	%	
Chemistry					
Blood triglycerides	34	2.1	28	1.2	
increased					
Alkaline phosphatase	30	2.9	20	2.3	
increased					
Blood sodium decreased	28	6	20	2.6	
Lipase increased	25	8	16	6	
Aspartate aminotransferase	24	1.7	12	0.9	
(AST) increased					
Blood potassium increased	24	3.8	16	0.9	
Alanine aminotransferase	24	2.6	12	0.6	
(ALT) increased					
Blood cholesterol increased	22	1.2	16	0.3	
Serum amylase increased	21	5	12	1.8	
CPK increased	19	2.4	12	0	
Phosphate decreased	19	3.2	15	1.2	
Hematology					
Hemoglobin decreased	28	4.4	18	3.2	
White blood cell decreased	20	0.6	10	0	
Platelet count decreased	18	0.6	12	0.3	

*Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: BAVENCIO plus BSC group (range: 339 to 344 patients) and BSC group (range: 329 to 341 patients).

Previously-Treated Urothelial Carcinoma

The safety of BAVENCIO was evaluated in 242 patients with locally advanced or metastatic UC receiving BAVENCIO at 10 mg/kg every 2 weeks in the UC cohorts of the JAVELIN Solid Tumor trial. Patients received pre-medication with an anti-histamine and acetaminophen prior to each infusion. The median duration of exposure to BAVENCIO was 12 weeks (range: 2 weeks to 92 weeks) *[see Clinical Studies (14.2)]*.

Fourteen patients (6%) who were treated with BAVENCIO experienced either pneumonitis, respiratory failure, sepsis/urosepsis, cerebrovascular accident, or gastrointestinal adverse events, which led to death.

Grade 1-4 serious adverse reactions were reported in 41% of patients. The most frequent serious adverse reactions reported in \geq 2% of patients were urinary tract infection/urosepsis, abdominal pain, musculoskeletal pain, creatinine increased/renal failure, dehydration, hematuria/urinary tract hemorrhage, intestinal obstruction/small intestine obstruction, and pyrexia.

Permanent discontinuation due to an adverse reaction for BAVENCIO occurred in 12% of patients. The adverse reaction that resulted in permanent discontinuation in > 1% of patients was fatigue.

Dose interruptions due to an adverse reaction, excluding temporary interruptions due to infusion-related reactions, occurred in 29% of patients receiving BAVENCIO. Adverse reactions leading to interruption of BAVENCIO in > 1% of patients were diarrhea, fatigue, dyspnea, urinary tract infection, and rash.

The most common Grade 3 and 4 adverse reactions (\geq 3%) were anemia, fatigue, hyponatremia, hypertension, urinary tract infection, and musculoskeletal pain.

The most common adverse reactions ($\geq 20\%$) were fatigue, infusion-related reaction, musculoskeletal pain, nausea, decreased appetite, and urinary tract infection.

Eleven (4.5%) patients received an oral prednisone dose equivalent to \geq 40 mg daily for an immune-mediated adverse reaction [see Warnings and Precautions (5)].

Advanced Renal Cell Carcinoma

The safety of BAVENCIO was evaluated in JAVELIN Renal 101. Patients with autoimmune disease other than type I diabetes mellitus, vitiligo, psoriasis, or thyroid disorders not requiring immunosuppressive treatment were excluded. Patients received BAVENCIO 10 mg/kg every 2 weeks administered in combination with axitinib 5 mg twice daily (N=434) or sunitinib 50 mg once daily for 4 weeks followed by 2 weeks off (N=439).

In the BAVENCIO plus axitinib arm, 70% were exposed to BAVENCIO for ≥ 6 months and 29% were exposed for ≥ 1 year in JAVELIN Renal 101 [see Clinical Studies (14.3)].

The median age of patients treated with BAVENCIO in combination with axitinib was 62 years (range: 29 to 83), 38% of patients were 65 years or older, 71% were male, 75% were White, and the ECOG performance score was 0 (64%) or 1 (36%).

Fatal adverse reactions occurred in 1.8% of patients receiving BAVENCIO in combination with axitinib. These included sudden cardiac death (1.2%), stroke (0.2%), myocarditis (0.2%), and necrotizing pancreatitis (0.2%).

Serious adverse reactions occurred in 35% of patients receiving BAVENCIO in combination with axitinib. Serious adverse reactions in $\geq 1\%$ of patients included diarrhea (2.5%), dyspnea (1.8%), hepatotoxicity (1.8%), venous thromboembolic disease (1.6%), acute kidney injury (1.4%), and pneumonia (1.2%).

Permanent discontinuation due to an adverse reaction of either BAVENCIO or axitinib occurred in 22% of patients: 19% BAVENCIO only, 13% axitinib only, and 8% both drugs. The most common adverse reactions (> 1%) resulting in permanent discontinuation of BAVENCIO or the combination were hepatotoxicity (6%) and infusion-related reaction (1.8%).

Dose interruptions or reductions due to an adverse reaction, excluding temporary interruptions of BAVENCIO infusions due to infusion-related reactions, occurred in 76% of patients receiving BAVENCIO in combination with axitinib. This includes interruption of BAVENCIO in 50% of patients. Axitinib was interrupted in 66% and dose reduced in 19% of patients. The most common adverse reaction (> 10%) resulting in interruption of BAVENCIO was diarrhea (10%) and the most common adverse reactions resulting in either interruption or dose reduction of axitinib were diarrhea (19%), hypertension (18%), palmar-plantar erythrodysesthesia (18%), and hepatotoxicity (10%).

The most common adverse reactions ($\geq 20\%$) in patients receiving BAVENCIO in combination with axitinib were diarrhea, fatigue, hypertension, musculoskeletal pain, nausea, mucositis, palmar-plantar erythrodysesthesia, dysphonia, decreased appetite, hypothyroidism, rash, hepatotoxicity, cough, dyspnea, abdominal pain, and headache.

Forty-eight (11%) patients treated with BAVENCIO in combination with axitinib received an oral prednisone dose equivalent to \geq 40 mg daily for an immune-mediated adverse reaction [see Warnings and Precautions (5)].

Table 6 summarizes adverse reactions that occurred in \ge 20% of BAVENCIO in combination with axitinib-treated patients.

Table 6: Adverse Reactions (≥ 20%) of Patients Receiving BAVENCIO in Combination with Axitinib (JAVELIN Renal 101 Trial)

Adverse Reactions	BAVENCIO plus Axitinib (N=434)		Sunitinib (N=439)	
	All Grades	Grade 3-4	All Grades	Grade 3-4
Gastrointestinal Disorders	%	%	%	%
Diarrhea ^a	62	8	48	2.7
Nausea	34	0 1.4	39	1.6
Mucositis ^b	34	2.8	39	
	24	2.8	18	2.1 3.6
Hepatotoxicity ^c	24	1.4	18	2.1
Abdominal pain ^d			19	2.1
General Disorders and Administration			54	6
Fatigue ^e	53	6	54	6
Vascular Disorders	50	26	26	17
Hypertension ^f	50	26	36	17
Musculoskeletal and Connective Tissu		2.2	22	0.7
Musculoskeletal pain ^g	40	3.2	33	2.7
Skin and Subcutaneous Tissue Disord			24	
Palmar-plantar erythrodysesthesia	33	6	34	4
Rash ^h	25	0.9	16	0.5
Respiratory, Thoracic and Mediastina		T	Γ	
Dysphonia	31	0.5	3.2	0
Dyspnea ⁱ	23	3	16	1.8
Cough	23	0.2	19	0
Metabolism and Nutrition Disorders				
Decreased appetite	26	2.1	29	0.9
Endocrine Disorders				
Hypothyroidism	25	0.2	14	0.2
Nervous System Disorders				
Headache	21	0.2	16	0.2

^a Diarrhea is a composite term that includes diarrhea, autoimmune colitis, and colitis.

^b Mucositis is a composite term that includes mucosal inflammation and stomatitis.

^c Hepatotoxicity is a composite term that includes ALT increased, AST increased, autoimmune hepatitis, bilirubin conjugated, bilirubin conjugated increased, blood bilirubin increased, drug-induced liver injury, hepatic enzyme increased, hepatic function abnormal, hepatitis, hepatitis fulminant, hepatocellular injury, hepatotoxicity, hyperbilirubinemia, immune-mediated hepatitis, liver function test increased, liver disorder, liver injury, and transaminases increased.

^d Abdominal pain is a composite term that includes abdominal pain, flank pain, abdominal pain upper, and abdominal pain lower.

^e Fatigue is a composite term that includes fatigue and asthenia.

^f Hypertension is a composite term that includes hypertension and hypertensive crisis.

^g Musculoskeletal pain is a composite term that includes musculoskeletal pain, musculoskeletal chest pain, myalgia, back pain, bone pain, musculoskeletal discomfort, neck pain, spinal pain, and pain in extremity.

^h Rash is a composite term that includes rash, rash generalized, rash macular, rash maculo-papular, rash pruritic, rash erythematous, rash papular, and rash pustular.

ⁱDyspnea is a composite term that includes dyspnea, dyspnea exertional and dyspnea at rest.

Other clinically important adverse reactions that occurred in less than 20% of patients in JAVELIN Renal 101 included arthralgia, weight decreased, and chills.

Patients received pre-medication with an anti-histamine and acetaminophen prior to each infusion. Infusion-related reactions occurred in 12% (Grade 3: 1.6%; no Grade 4) of patients treated with BAVENCIO in combination with axitinib.

Table 7 summarizes selected laboratory abnormalities that occurred in $\ge 20\%$ of BAVENCIO in combination with axitinib-treated patients.

Table 7: Selected Laboratory Abnormalities Worsening from Baseline Occurring in ≥ 20% of Patients Receiving BAVENCIO in Combination with Axitinib (JAVELIN Renal 101 Trial)

Laboratory Abnormality	BAVENCIO plus Axitinib [*]		Sunitinib [*]	
	Any Grade %	Grade 3-4 %	Any Grade %	Grade 3-4 %
Chemistry			·	
Blood triglycerides increased	71	13	48	5
Blood creatinine increased	62	2.3	68	1.4
Blood cholesterol increased	57	1.9	22	0.7
Alanine aminotransferase increased (ALT)	50	9	46	3.2
Aspartate aminotransferase increased (AST)	47	7	57	3.2
Blood sodium decreased	38	9	37	10
Lipase increased	37	14	25	7
Blood potassium increased	35	3	28	3.9
Blood bilirubin increased	21	1.4	23	1.4
Hematology				•
Platelet count decreased	27	0.7	80	15
Hemoglobin decreased	21	2.1	65	8

* Each test incidence is based on the number of patients who had both baseline and at least one on-study laboratory measurement available: BAVENCIO in combination with axitinib group (range: 413 to 428 patients) and sunitinib group (range: 405 to 433 patients).

6.2 Immunogenicity

As with all therapeutic proteins, there is potential for immunogenicity. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, comparison of the incidence of antibodies to avelumab in the studies described below with the incidence of antibodies in other studies or to other products may be misleading.

Of the 344 patients treated with BAVENCIO 10 mg/kg as an intravenous infusion every 2 weeks plus BSC, 325 were evaluable for treatment-emergent anti-drug antibodies (ADA) and 62 (19.1%) tested positive in the JAVELIN Bladder 100 trial.

Of the 480 patients treated with BAVENCIO 10 mg/kg as an intravenous infusion every 2 weeks in combination with axitinib 5 mg twice daily, 453 were evaluable for treatment-emergent ADA and 66 (15%) tested positive in the JAVELIN Renal 100 and JAVELIN Renal 101 trials.

Patients who tested positive for treatment-emergent ADA had decreased systemic BAVENCIO exposure *[see Clinical Pharmacology (12.3)]*. In exploratory analyses, the effect of ADA on the efficacy or safety could not be determined due to insufficient numbers of patients in the ADA-positive subgroup and confounding variables.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on its mechanism of action, BAVENCIO can cause fetal harm when administered to a pregnant woman. There are no available data on the use of BAVENCIO in pregnant women *[see Clinical Pharmacology (12.1)]*. Animal studies have demonstrated that inhibition of the PD-1/PD-L1 pathway can lead to increased risk of immune-mediated rejection of the developing fetus resulting in fetal death *[see Data]*. Human IgG1 immunoglobulins (IgG1) are known to cross the placenta. Therefore, BAVENCIO has the potential to be transmitted from the mother to the developing fetus. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, advise the patient of the potential risk to a fetus.

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Data

Animal Data

Animal reproduction studies have not been conducted with BAVENCIO to evaluate its effect on reproduction and fetal development. A central function of the PD-1/PD-L1 pathway is to preserve pregnancy by maintaining maternal immune tolerance to the fetus. In murine models of pregnancy, blockade of PD-L1 signaling has been shown to disrupt tolerance to the fetus and to result in an increase in fetal loss; therefore, potential risks of administering BAVENCIO during

pregnancy include increased rates of abortion or stillbirth. As reported in the literature, there were no malformations related to the blockade of PD-1/PD-L1 signaling in the offspring of these animals; however, immune-mediated disorders occurred in PD-1 and PD-L1 knockout mice. Based on its mechanism of action, fetal exposure to BAVENCIO may increase the risk of developing immune-related disorders or altering the normal immune response.

8.2 Lactation

Risk Summary

There is no information regarding the presence of avelumab in human milk, the effects on the breastfed infant, or the effects on milk production. Since many drugs including antibodies are excreted in human milk, advise a lactating woman not to breastfeed during treatment and for at least one month after the last dose of BAVENCIO due to the potential for serious adverse reactions in breastfed infants.

8.3 Females and Males of Reproductive Potential

Contraception

Based on its mechanism of action, BAVENCIO can cause fetal harm when administered to a pregnant woman *[see Use in Specific Populations (8.1)]*. Advise females of reproductive potential to use effective contraception during treatment with BAVENCIO and for at least 1 month after the last dose of BAVENCIO.

8.4 Pediatric Use

The safety and effectiveness of BAVENCIO have been established in pediatric patients aged 12 years and older for metastatic MCC. Use of BAVENCIO in this age group is supported by evidence from adequate and well-controlled studies of BAVENCIO in adults with additional population pharmacokinetic data demonstrating that age and body weight had no clinically meaningful effect on the steady state exposure of avelumab, that drug exposure is generally similar between adults and pediatric patients age 12 years and older for monoclonal antibodies, and that the course of MCC is sufficiently similar in adult and pediatric patients to allow extrapolation of data in adults to pediatric patients. The recommended dose in pediatric patients 12 years of age or greater is the same as that in adults [see Dosage and Administration (2.2), Clinical Pharmacology (12.3), and Clinical Studies (14)].

Safety and effectiveness of BAVENCIO have not been established in pediatric patients less than 12 years of age.

8.5 Geriatric Use

Metastatic Merkel Cell Carcinoma

Clinical studies of BAVENCIO in MCC did not include sufficient numbers of patients aged 65 and over to determine whether they respond differently from younger patients.

Locally Advanced or Metastatic Urothelial Carcinoma

Of the 344 patients randomized to BAVENCIO 10 mg/kg plus BSC in the JAVELIN Bladder 100 trial, 63% were 65 years or older and 24% were 75 years or older. No overall differences in safety or efficacy were reported between elderly patients and younger patients.

Advanced Renal Cell Carcinoma

Of the 434 patients randomized to BAVENCIO 10 mg/kg administered in combination with axitinib 5 mg twice daily in the JAVELIN Renal 101 trial, 38% were 65 years or older and 8% were 75 years or older. No overall difference in safety or efficacy were reported between elderly patients and younger patients.

11 DESCRIPTION

Avelumab is a programmed death ligand1 (PD-L1) blocking antibody. Avelumab- is a human IgG1 lambda monoclonal antibody produced in Chinese hamster ovary cells and has a molecular weight of approximately 147 kDa.

BAVENCIO (avelumab) Injection for intravenous use is a sterile, preservative-free, nonpyrogenic, clear, colorless to slightly yellow solution. Each single-dose vial contains 200 mg avelumab in 10 mL (20 mg/mL). Each mL contains 20 mg avelumab, D-mannitol (51 mg), glacial acetic acid (0.6 mg), polysorbate 20 (0.5 mg), sodium hydroxide (0.3 mg), and Water for Injection. The pH range of the solution is 5.0 - 5.6.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

PD-L1 may be expressed on tumor cells and tumor-infiltrating immune cells and can contribute to the inhibition of the anti-tumor immune response in the tumor microenvironment. Binding of PD-L1 to the PD-1 and B7.1 receptors found on T cells and antigen presenting cells suppresses cytotoxic T-cell activity, T-cell proliferation, and cytokine production. Avelumab binds PD-L1 and blocks the interaction between PD-L1 and its receptors PD-1 and B7.1. This interaction releases the inhibitory effects of PD-L1 on the immune response resulting in the restoration of immune responses, including anti-tumor immune responses. Avelumab has also been shown to induce antibody-dependent cell-mediated cytotoxicity (ADCC) in vitro. In syngeneic mouse tumor models, blocking PD-L1 activity resulted in decreased tumor growth.

12.2 Pharmacodynamics

Based on exposure efficacy and exposure safety relationships, there are no expected clinically meaningful differences in the safety or efficacy of BAVENCIO administered every 2 weeks at 800 mg or 10 mg/kg in patients with metastatic Merkel cell carcinoma, in patients with urothelial carcinoma and in patients with advanced renal cell carcinoma.

12.3 Pharmacokinetics

Avelumab pharmacokinetics (PK) was assessed using a population PK approach for both singleagent BAVENCIO and BAVENCIO in combination with axitinib. There are no expected clinically meaningful differences in exposure of avelumab administered every 2 weeks at 800 mg or 10 mg/kg in both settings.

BAVENCIO as a single agent

The pharmacokinetics of avelumab as a single agent was studied in 1629 patients who received doses ranging from 1 to 20 mg/kg every 2 weeks. The data showed that the exposure of

avelumab increased dose-proportionally in the dose range of 10 to 20 mg/kg every 2 weeks. Steady-state concentrations of avelumab were reached after approximately 4 to 6 weeks (2 to 3 cycles) of repeated dosing, and the systemic accumulation was approximately 1.25-fold. The geometric mean volume of distribution at steady state for a subject receiving 10 mg/kg was 4.72 L. The primary elimination mechanism of avelumab is proteolytic degradation. Based on population pharmacokinetic analyses in patients with solid tumors, the total systemic clearance was 0.59 L/day and the terminal half-life was 6.1 days in patients receiving 10 mg/kg. In a post hoc analysis, avelumab clearance was found to decrease over time in patients with MCC, with a mean maximal reduction (% coefficient of variation [CV%]) from baseline value of approximately 32.1% (36.2%), which is not considered clinically important. There was no evidence to suggest a change of avelumab clearance over time in patients with UC.

BAVENCIO with axitinib

When BAVENCIO 10 mg/kg was administered in combination with axitinib 5 mg, the respective exposures of avelumab and axitinib were comparable to the single agents. There was no evidence to suggest a clinically relevant change of avelumab clearance over time in patients with advanced RCC.

Specific Populations

Body weight was positively correlated with total systemic clearance in population pharmacokinetic analyses. No clinically meaningful differences in pharmacokinetics were observed in the clearance of avelumab based on age; sex; race; PD-L1 status; tumor burden; mild [calculated creatinine clearance (CLcr) 60 to 89 mL/min, n=623 as estimated by the Cockcroft-Gault formula], moderate [CLcr 30 to 59 mL/min, n=320], or severe [CLcr 15 to 29 mL/min, n=4] renal impairment; and mild [bilirubin less than or equal to ULN and AST greater than ULN or bilirubin between 1 and 1.5 times ULN, n=217] or moderate [bilirubin between 1.5 and 3 times ULN, n=4] hepatic impairment. There are limited data from patients with severe hepatic impairment [bilirubin greater than 3 times ULN, n=1], and the effect of severe hepatic impairment on the pharmacokinetics of avelumab is unknown. In patients with advanced UC or advanced RCC, BAVENCIO clearance in patients who tested positive for treatment-emergent ADA was approximately 15% higher as compared to clearance in patients who tested negative for treatment-emergent ADA.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

No studies have been conducted to assess the potential of avelumab for genotoxicity or carcinogenicity.

Fertility studies have not been conducted with avelumab; however, an assessment of male and female reproductive organs was included in 3-month repeat-dose toxicity study in Cynomolgus monkeys. Weekly administration of avelumab did not result in any notable effects in the male and female reproductive organs.

13.2 Animal Toxicology and/or Pharmacology

In animal models, inhibition of PD-L1/PD-1 signaling increased the severity of some infections and enhanced inflammatory responses. M. tuberculosis-infected PD-1 knockout mice exhibit markedly decreased survival compared with wild-type controls, which correlated with increased bacterial proliferation and inflammatory responses in these animals. PD-L1 and PD-1 knockout mice and mice receiving PD-L1 blocking antibody have also shown decreased survival following infection with lymphocytic choriomeningitis virus.

14 CLINICAL STUDIES

14.1 Metastatic Merkel Cell Carcinoma

The efficacy and safety of BAVENCIO was demonstrated in the JAVELIN Merkel 200 trial (NCT02155647), an open-label, single-arm, multi-center study conducted in patients with histologically confirmed metastatic MCC whose disease had progressed on or after chemotherapy administered for distant metastatic disease. The trial excluded patients with autoimmune disease; medical conditions requiring systemic immunosuppression; prior organ or allogeneic stem cell transplantation; prior treatment with anti-PD-1, anti-PD-L1, or anti-CTLA-4 antibodies; CNS metastases; infection with HIV, hepatitis B, or hepatitis C; or ECOG performance score ≥ 2 .

Patients received BAVENCIO 10 mg/kg as an intravenous infusion over 60 minutes every 2 weeks until disease progression or unacceptable toxicity. Patients with radiological disease progression not associated with significant clinical deterioration, defined as no new or worsening symptoms, no change in performance status for greater than 2 weeks, and no need for salvage therapy, could continue treatment. Tumor response assessments were performed every 6 weeks. The major efficacy outcome measures were confirmed overall response rate (ORR) according to Response Evaluation Criteria in Solid Tumors (RECIST) v1.1 as assessed by a blinded independent central review committee (IRC) and IRC-assessed duration of response. The efficacy analysis was conducted when the last patient enrolled had completed 12 months of follow-up.

A total of 88 patients were enrolled. Baseline patient characteristics were a median age of 73 years (range: 33 to 88), 74% of patients were male, 92% were White, and the ECOG performance score was 0 (56%) or 1 (44%). Seventy-five percent of patients were 65 years or older, 35% were 75 or older, and 3% were 85 or older. Sixty-five percent of patients were reported to have had one prior anti-cancer therapy for metastatic MCC and 35% had two or more prior therapies. Fifty-three percent of patients had visceral metastases. All patients had tumor samples evaluated for PD-L1 expression; of these, 66% were PD-L1-positive (\geq 1% of tumor cells), 18% were PD-L1 negative, and 16% had non-evaluable results by an investigational immunohistochemistry assay. Archival tumor samples were evaluated for Merkel cell polyomavirus (MCV) using an investigational assay; of the 77 patients with evaluable results, 52% had evidence of MCV.

Efficacy results are presented in Table 8. Responses were observed in patients regardless of tumor PD-L1 expression or presence of MCV.

Efficacy Endpoints	Results (N=88)
Overall Response Rate (ORR)	
Overall response rate, (95% CI)	33.0% (23.3%, 43.8%)
Complete response (CR) rate, (95% CI)	11.4% (6.6%, 19.9%)
Partial response (PR) rate, (95% CI)	21.6% (13.5%, 31.7%)
Duration of Response (DOR)	N=29
Range in months	2.8 to 23.3+
Patients with DOR ≥ 6 months, n (%)	25 (86%)
Patients with DOR \geq 12 months, n (%)	13 (45%)

Table 8: Efficacy Results of the JAVELIN Merkel 200 Trial

CI: Confidence interval.

14.2 Locally Advanced or Metastatic Urothelial Carcinoma

First-Line Maintenance Treatment of Urothelial Carcinoma

The efficacy and safety of BAVENCIO was demonstrated in the JAVELIN Bladder 100 trial (NCT02603432), a randomized, multi-center, open-label study conducted in 700 patients with unresectable, locally advanced or metastatic urothelial carcinoma that did not progress with first-line platinum-containing chemotherapy. Patients with autoimmune disease or a medical condition that required immunosuppression were excluded.

Randomization was stratified by best response to chemotherapy (CR/PR vs. stable disease [SD]) and site of metastasis (visceral vs. non-visceral) at the time of initiating first-line chemotherapy. Patients were randomized (1:1) to receive either BAVENCIO 10 mg/kg intravenous infusion every 2 weeks plus best supportive care (BSC) or BSC alone. Treatment was initiated within 4-10 weeks after the last dose of chemotherapy.

Treatment with BAVENCIO continued until RECIST v1.1-defined progression of disease by Blinded Independent Central Review (BICR) assessment or unacceptable toxicity. Administration of BAVENCIO was permitted beyond RECIST-defined disease progression if the patient was clinically stable and was considered to be deriving clinical benefit by the investigator. Assessment of tumor status was performed at baseline, 8 weeks after randomization, then every 8 weeks up to 12 months after randomization, and every 12 weeks thereafter until documented confirmed disease progression based on BICR assessment per RECIST v1.1.

Baseline characteristics were well-balanced between arms. Overall, the median age was 69 years (range: 32 to 90), with 66% of patients \geq 65 years of age and 24% of patients \geq 75 years of age. Most patients were male (77%). The majority of patients were White (67%) and 22% were Asian. Baseline ECOG PS was 0 (61%) or 1 (39%).

Fifty-six percent (56%) of patients received prior gemcitabine plus cisplatin, 38% of patients received prior gemcitabine plus carboplatin, and 6% of patients received prior gemcitabine plus cisplatin and gemcitabine plus carboplatin. Best response to first-line chemotherapy was CR or PR (72%) or SD (28%). Sites of metastasis prior to chemotherapy were visceral (55%) or non-visceral (45%). Fifty-one (51%) of patients had PD-L1-positive-tumors, 39% of patients had

PD-L1-negative tumors, and 10% of patients had unknown PD-L1 tumor status. Six percent (6%) of patients received another PD-1/PD-L1 checkpoint inhibitor after discontinuation of treatment in the BAVENCIO plus BSC arm and 44% of patients in the BSC arm.

The major efficacy outcome measure was overall survival (OS) in all randomized patients and patients with PD-L1-positive tumors. The trial demonstrated a statistically significant improvement in OS for patients randomized to BAVENCIO plus BSC as compared with BSC alone (Table 9 and Figure 1). Consistent results were observed across the pre-specified subgroup of CR/PR versus SD to first-line chemotherapy.

Efficacy Endpoints	BAVENCIO plus BSC (N=350)	BSC (N=350)		
Overall Survival (OS)				
Events (%)	145 (41.4)	179 (51.1)		
Median in months (95% CI)	21.4 (18.9, 26.1)	14.3 (12.9, 17.9)		
Hazard ratio (95% CI)	0.69 (0.5	0.69 (0.56, 0.86)		
2-sided p-value*	0.0	01		

Table 9: Efficacy Results from the JAVELIN Bladder 100 Trial

BSC: Best supportive care; CI: Confidence interval.

* p-value based on stratified log-rank.

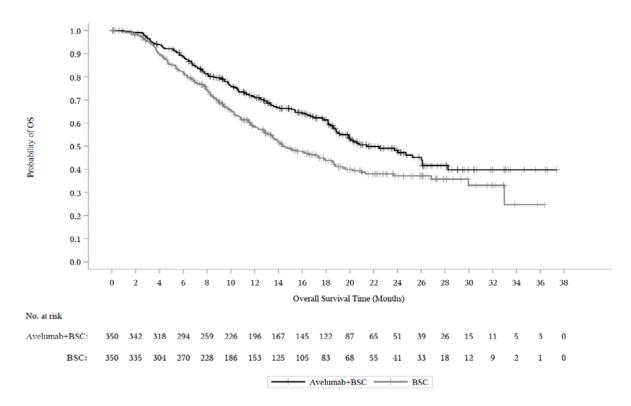


Figure 1: K-M Estimates for OS from the JAVELIN Bladder 100 Trial

In the prespecified endpoint of OS among patients with PD-L1-positive tumors (n=358, 51%), the hazard ratio was 0.56 (95% CI: 0.40, 0.79; 2-sided p-value <0.001) for patients randomized to BAVENCIO plus BSC versus BSC alone. In an exploratory analysis of patients with PD-L1-negative tumors (n=271, 39%), the OS hazard ratio was 0.85 (95% CI: 0.62, 1.18).

Previously-Treated Urothelial Carcinoma

The efficacy and safety of BAVENCIO was demonstrated in the UC cohorts of the JAVELIN Solid Tumor trial, an open-label, single-arm, multi-center study that included 242 patients with locally advanced or metastatic urothelial carcinoma (UC) with disease progression on or after platinum-containing chemotherapy or who had disease progression within 12 months of treatment with a platinum-containing neoadjuvant or adjuvant chemotherapy regimen. Patients with active or history of central nervous system metastasis; other malignancies within the last 5 years; organ transplant; conditions requiring therapeutic immune suppression; or active infection with HIV, hepatitis B, or hepatitis C were excluded. Patients with autoimmune disease, other than type 1 diabetes, vitiligo, psoriasis, or thyroid disease that did not require immunosuppressive treatment, were excluded. Patients were included regardless of their PD-L1 status.

Patients received BAVENCIO at a dose of 10 mg/kg intravenously every 2 weeks until radiographic or clinical progression or unacceptable toxicity. Tumor response assessments were performed every 6 weeks. Efficacy outcome measures included confirmed overall response rate (ORR), as assessed by an Independent Endpoint Review Committee (IERC) using Response Evaluation Criteria in Solid Tumors (RECIST) v1.1, and duration of response (DOR). Efficacy

was evaluated in patients who were followed for a minimum of both 13 weeks and 6 months at the time of data cut-off.

Baseline demographic and disease characteristics for the 226 patients with a minimum of 13 weeks of follow-up were median age 68 years (range: 30 to 89), 72% male, 80% White, and 34% and 66% of patients had an ECOG performance status 0 and 1, respectively. Forty-four percent of patients had non-bladder urothelial carcinoma including 23% of patients with upper tract disease, and 83% of patients had visceral metastases (baseline target and/or non-target lesions present outside of the lymph nodes). Nine (4%) patients had disease progression following prior platinum-containing neoadjuvant or adjuvant therapy only. Forty-seven percent of patients only received prior cisplatin-based regimens, 32% received only prior carboplatin-based regimens, and 20% received both cisplatin and carboplatin-based regimens. At baseline, 17% of patients had a hemoglobin < 10 g/dL and 34% of patients had liver metastases.

Efficacy results are presented in Table 10. The median time to response was 2.0 months (range: 1.3 to 11.0) among patients followed for either ≥ 13 weeks or ≥ 6 months. Using a clinical trial assay to assess PD-L1 staining, with 16% of patients not evaluable, there were no clear differences in response rates based on PD-L1 tumor expression. Among the total 30 responding patients followed for ≥ 13 weeks, 22 patients (73%) had an ongoing response of 6 months or longer and 4 patients (13%) had ongoing responses of 12 months or longer. Among the total 26 responding patients followed for ≥ 6 months, 22 patients (85%) had ongoing responses of 6 months or longer.

Efficacy Endpoints	≥ 13 Weeks Follow-Up (N=226)	≥ 6 Months Follow-Up (N=161)
Confirmed Overall Response Rate (ORR)		
Overall Response Rate n (%)	30 (13.3%)	26 (16.1%)
(95% CI)	(9.1, 18.4)	(10.8, 22.8)
Complete Response (CR) n (%)	9 (4.0%)	9 (5.6%)
Partial Response (PR) n (%)	21 (9.3%)	17 (10.6%)
Duration of Response (DOR)		
Median, months (range)	NE (1.4+ to 17.4+)	NE (1.4+ to 17.4+)

Table 10: Efficacy Results of the UC Cohorts in the JAVELIN Solid Tumor Trial

CI: Confidence interval; NE: Not estimable; + denotes a censored value.

14.3 Advanced Renal Cell Carcinoma

The efficacy and safety of BAVENCIO in combination with axitinib was demonstrated in the JAVELIN Renal 101 trial (NCT02684006), a randomized, multicenter, open-label, study of BAVENCIO in combination with axitinib in 886 patients with untreated advanced RCC regardless of tumor PD-L1 expression [intent-to-treat (ITT) population]. Patients with autoimmune disease or conditions requiring systemic immunosuppression were excluded.

Randomization was stratified according to Eastern Cooperative Oncology Group (ECOG) Performance Status (PS) (0 vs. 1) and region (United States vs. Canada/Western Europe vs. the rest of the world). Patients were randomized (1:1) to one of the following treatment arms:

- BAVENCIO 10 mg/kg intravenous infusion every 2 weeks in combination with axitinib 5 mg twice daily orally (N=442). Patients who tolerated axitinib 5 mg twice daily without Grade 2 or greater axitinib-related adverse events for 2 consecutive weeks could increase to 7 mg and then subsequently to 10 mg twice daily. Axitinib could be interrupted or reduced to 3 mg twice daily and subsequently to 2 mg twice daily to manage toxicity.
- Sunitinib 50 mg once daily orally for 4 weeks followed by 2 weeks off (N=444) until radiographic or clinical progression or unacceptable toxicity.

Treatment with BAVENCIO and axitinib continued until RECIST v1.1-defined progression of disease by Blinded Independent Central Review (BICR) assessment or unacceptable toxicity. Administration BAVENCIO and axitinib was permitted beyond RECIST-defined disease progression if the patient was clinically stable and considered to be deriving clinical benefit by the investigator. Assessment of tumor status was performed at baseline, after randomization at 6 weeks, then every 6 weeks thereafter up to 18 months after randomization, and every 12 weeks thereafter until documented confirmed disease progression by BICR.

Baseline characteristics were a median age of 61 years (range: 27 to 88), 38% of patients were 65 years or older, 75% were male, 75% were White, and the ECOG PS was 0 (63%) or 1 (37%), respectively. Patient distribution by International Metastatic Renal Cell Carcinoma Database (IMDC) risk groups was 21% favorable, 62% intermediate, and 16% poor.

The major efficacy outcome measures were progression-free survival (PFS), as assessed by an BICR using RECIST v1.1 and overall survival (OS) in patients with PD-L1-positive tumors using a clinical trial assay (PD-L1 expression level \geq 1%). Since PFS was statistically significant in patients with PD-L1-positive tumors [HR 0.61 (95% CI: 0.48, 0.79)], it was then tested in the ITT population and a statistically significant improvement in PFS in the ITT population was also demonstrated.

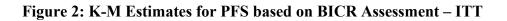
With a median overall survival follow-up of 19 months, overall survival data were immature with 27% deaths in the ITT population.

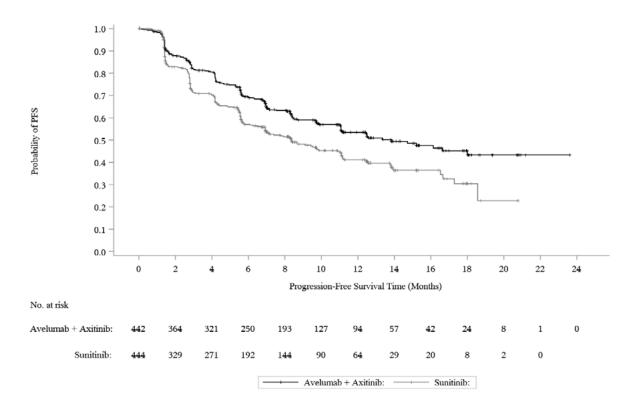
Efficacy results are presented in Table 11 and Figure 2.

Efficacy Endpoints (Based on BICR Assessment)	BAVENCIO plus Axitinib	Sunitinib (N=444)		
	(N=442)	``		
Progression-Free Survival (PFS)				
Events (%)	180 (41)	216 (49)		
Median in months (95% CI)	13.8 (11.1, NE)	8.4 (6.9, 11.1)		
Hazard ratio (95% CI)	0.69 (0.5	0.69 (0.56, 0.84)		
2-sided p-value*	0.00	0.0002		
Confirmed Objective Response Rate (ORR)				
Objective Response Rate n (%)	227 (51.4)	114 (25.7)		
(95% CI)	(46.6, 56.1)	(21.7, 30.0)		
Complete Response (CR) n (%)	15 (3.4)	8 (1.8)		
Partial Response (PR) n (%)	212 (48)	106 (24)		

Table 11: Efficacy Results from JAVELIN Renal 101 Trial - ITT

BICR: Blinded Independent Central Review; CI: Confidence interval; NE: Not estimable. * p-value based on stratified log-rank.





16 HOW SUPPLIED/STORAGE AND HANDLING

BAVENCIO (avelumab) Injection is a sterile, preservative-free, and clear, colorless to slightly yellow solution for intravenous infusion supplied as a single-dose vial of 200 mg/10 mL (20 mg/mL), individually packed into a carton (NDC 44087-3535-1).

Store refrigerated at 36°F to 46°F (2°C to 8°C) in original package to protect from light.

Do not freeze or shake the vial.

The vial stopper is not made with natural rubber latex.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Medication Guide).

Immune-Mediated Adverse Reactions

Inform patients of the risk of immune-mediated adverse reactions requiring corticosteroids or hormone replacement therapy, including, but not limited to:

- Pneumonitis: Advise patients to contact their healthcare provider immediately for new or worsening cough, chest pain, or shortness of breath *[see Warnings and Precautions (5.1)]*.
- Hepatitis: Advise patients to contact their healthcare provider immediately for jaundice, severe nausea or vomiting, pain on the right side of abdomen, lethargy, or easy bruising or bleeding *[see Warnings and Precautions (5.2)]*.
- Colitis: Advise patients to contact their healthcare provider immediately for diarrhea or severe abdominal pain [see Warnings and Precautions (5.3)].
- Endocrinopathies: Advise patients to contact their healthcare provider immediately for signs or symptoms of adrenal insufficiency, hypothyroidism, hyperthyroidism, and diabetes mellitus [see Warnings and Precautions (5.4)].
- Nephritis and Renal Dysfunction: Advise patients to contact their healthcare provider immediately for signs or symptoms of nephritis including decreased urine output, blood in urine, swelling in ankles, loss of appetite, and any other symptoms of renal dysfunction *[see Warnings and Precautions (5.5)]*.

Infusion-Related Reactions

Advise patients to contact their healthcare provider immediately for signs or symptoms of potential infusion-related reactions *[see Warnings and Precautions (5.7)]*.

Major Adverse Cardiovascular Events

Advise patients receiving BAVENCIO in combination with axitinib to contact their healthcare provider immediately for signs or symptoms of cardiovascular events including but not limited to new or worsening chest discomfort, dyspnea, or peripheral edema [see Warnings and Precautions (5.8).

Embryo-Fetal Toxicity

Advise females of reproductive potential that BAVENCIO can cause fetal harm. Instruct females of reproductive potential to use effective contraception during and for at least one month after the last dose of BAVENCIO [see Warnings and Precautions (5.9) and Use in Specific Populations (8.1, 8.3)].

Lactation

Advise nursing mothers not to breastfeed while taking BAVENCIO and for at least one month after the final dose *[see Use in Specific Populations (8.2)]*.

Manufactured by: EMD Serono, Inc. Rockland, MA 02370 U.S.A. Marketed by: EMD Serono, Inc. and Pfizer Inc., NY, NY 10017

US License No: 1773

BAVENCIO is a trademark of Merck KGaA, Darmstadt, Germany

Product of Switzerland

MEDICATI	
BAVENCIO [®] (bu	
(avelu	
injec	tion
What is the most important information I should know a	about BAVENCIO?
BAVENCIO is a medicine that may treat certain cancers by	
your immune system to attack normal organs and tissues a	
sometimes become serious or life-threatening and can lead	
Call or see your healthcare provider right away if you g symptoms get worse:	et any symptoms of the following problems or these
Lung problems (pneumonitis). Signs and symptoms of pr	neumonitis may include:
new or worsening cough shortness of b	reath • chest pain
Liver problems, including hepatitis. Signs and symptoms	s of liver problems may include:
• yellowing of your skin or the whites of your eyes	drowsiness
severe nausea or vomiting	 dark urine (tea colored)
 pain on the right side of your stomach area (abdomen) 	bleeding or bruising more easily than normal
Intestinal problems (colitis). Signs and symptoms of coliti	is may include:
 diarrhea (loose stools) or more bowel movements that 	
 blood in your stools or dark, tarry, sticky stools 	
 severe stomach area (abdomen) pain or tenderness 	
Hormone gland problems (especially the adrenal gland	s. thyroid, and pancreas). Signs and symptoms that you
hormone glands are not working properly may include:	
rapid heartbeat	constipation
 increased sweating 	your voice gets deeper
extreme tiredness	very low blood pressure
weight gain or weight loss	 urinating more often than usual
feeling more hungry or thirsty than usual	dizziness or fainting
hair loss	nausea or vomiting
changes in mood or behavior, such as irritability or	 stomach area (abdomen) pain
forgetfulness	feeling cold
Kidney problems, including nephritis. Signs and sympto	ms of kidney problems may include:
decrease in your amount of urine	 swelling in your ankles
blood in your urine	loss of appetite
Problems in other organs. Signs and symptoms may inclu	ude:
severe muscle weakness	tiredness, sleepiness
 severe or persistent muscle or joint pains 	 swelling of the feet and legs
chest pain and tightness	 dizziness or fainting
trouble breathing	 fever, flu-like symptoms
 skin rash, blisters, or peeling 	 changes in eyesight
changes in heartbeat, such as beating fast, or seemin	g to skip a beat, or pounding sensation
Severe infusion reactions. Signs and symptoms of severe	•
chills or shaking	 low blood pressure
hives	• fever
• flushing	back pain
 shortness of breath or wheezing 	 stomach area (abdomen) pain
Heart problems. When BAVENCIO is used with the medic	ine axitinib, severe heart problems can happen and can
lead to death. Signs and symptoms of heart problems may	include:
 swelling of your stomach area (abdomen), legs, 	weight gain
hands, feet, or ankles	 pain or discomfort in your arms, back, neck, or jaw
shortness of breath	 breaking out in a cold sweat
 nausea or vomiting 	 feeling lightheaded or dizzy

nausea or vomiting chest discomfort, including pain or pressure ٠

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• feeling lightheaded or dizzy

Getting medical treatment right away may help keep these problems from becoming more serious.

Your healthcare provider will check you for these problems during your treatment with BAVENCIO. Your healthcare provider may treat you with corticosteroid or hormone replacement medicines. Your healthcare provider may delay or completely stop treatment with BAVENCIO if you have severe side effects.

What is BAVENCIO?

BAVENCIO is a prescription medicine used to treat:

- a type of skin cancer called Merkel cell carcinoma (MCC) in adults and children 12 years of age and older. BAVENCIO may be used when your skin cancer has spread.
- a type of cancer in the bladder or urinary tract called urothelial carcinoma (UC) when it has spread or cannot be removed by surgery (advanced UC). BAVENCIO may be used:
 - as maintenance treatment when your cancer has responded or stabilized after you have received platinumcontaining chemotherapy as your first treatment.
 - when you have received platinum-containing chemotherapy, and it did not work or is no longer working.
- a type of kidney cancer called renal cell carcinoma (RCC). BAVENCIO may be used with the medicine axitinib as your first treatment when your kidney cancer has spread or cannot be removed by surgery (advanced RCC).

It is not known if BAVENCIO is safe and effective in children under the age of 12.

Before you receive BAVENCIO, tell your healthcare provider about all of your medical conditions, including if you:

- have immune system problems such as Crohn's disease or ulcerative colitis
- have had an organ transplant
- have lung or breathing problems
- have liver or kidney problems
- have diabetes
- have heart problems or high blood pressure
- have a high cholesterol level in your blood
- are pregnant or plan to become pregnant. BAVENCIO can harm your unborn baby. If you are able to become pregnant, you should use an effective method of birth control during your treatment and for at least 1 month after the last dose of BAVENCIO.
- are breastfeeding or plan to breastfeed. It is not known if BAVENCIO passes into your breast milk. Do not breastfeed during treatment and for at least 1 month after the final dose of BAVENCIO.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

How will I receive BAVENCIO?

- Your healthcare provider will give you BAVENCIO into your vein through an intravenous (IV) line over 60 minutes.
- BAVENCIO is usually given every 2 weeks.
- Your healthcare provider will give you medicines before the first 4 infusions and then as needed to help reduce infusion reactions.
- Your healthcare provider will decide how many treatments you need.
- Your healthcare provider will do blood tests to check you for certain side effects.
- If you miss any appointments, call your healthcare provider as soon as possible to reschedule your appointment.

What are the possible side effects of BAVENCIO?

BAVENCIO can cause serious side effects, including:

• See "What is the most important information I should know about BAVENCIO?"

The most common side effects of BAVENCIO in people with MCC include:

- feeling tired
 muscle and bone pain
 diarrhea
 infusion-related reaction including chills, fever, and back pain
 rash
- diarrheanausea

- decreased appetite
- swelling in your hands, feet, or ankles

The most common side effects of BAVENCIO as maintenance treatment in people with UC whose cancer responded or stabilized after platinum-containing chemotherapy as first treatment include:

• feeling tired

urinary tract infection

muscle and bone pain

unnary trac
rash

The most common side effects of BAVENCIO in people with UC after platinum-containing chemotherapy that did not work, or is no longer working, include:

- feeling tired
- infusion-related reaction including chills, fever, back pain, redness, and shortness of breath

muscle and bone pain

- nausea
- decreased appetite

hoarseness

urinary tract infection

decreased appetite

shortness of breath

low levels of thyroid hormone

The most common side effects of BAVENCIO when given with axitinib in people with RCC include:

•

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- diarrhea
- feeling tired
- high blood pressure
- muscle and bone pain
- nausea
- mouth sores
- liver problems
- blisters or rash on the palms of your hands and soles of your feet
- stomach area (abdomen) pain
 beadache

cough

rash

headache

These are not all the possible side effects of BAVENCIO. Ask your healthcare provider or pharmacist for more information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of BAVENCIO.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. If you would like more information about BAVENCIO, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about BAVENCIO that is written for health professionals.

What are the ingredients in BAVENCIO?

Active ingredient: avelumab

Inactive ingredients: D-mannitol, glacial acetic acid, polysorbate 20, sodium hydroxide, and Water for Injection **Manufactured by:** EMD Serono, Inc. One Technology Place, Rockland, MA 02370 USA, U.S. License No. 1773.

Marketed by: EMD Serono, Inc. and Pfizer Inc., NY, NY 10017 USA.

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For more information, call toll-free 1-844-826-8371 or go to www.bavencio.com.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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