



**HIGHLIGHTS OF PRESCRIBING INFORMATION**  
**These highlights do not include all the information needed to use TECENTRIQ safely and effectively. See full prescribing information for TECENTRIQ.**

**TECENTRIQ® (atezolizumab) injection, for intravenous use**  
**Initial U.S. Approval: 2016**

<b>RECENT MAJOR CHANGES</b>	
Indications and Usage (1.1)	4/2017
Indications and Usage (1.2)	10/2016
Warnings and Precautions (5.1, 5.2, 5.3, 5.4, 5.6)	10/2016

**INDICATIONS AND USAGE**  
TECENTRIQ is a programmed death-ligand 1 (PD-L1) blocking antibody indicated for the treatment of patients with:

- Locally advanced or metastatic urothelial carcinoma who:
    - are not eligible for cisplatin-containing chemotherapy, or
    - have disease progression during or following any platinum-containing chemotherapy, or within 12 months of neoadjuvant or adjuvant chemotherapy. (1.1)
- 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)
- Metastatic non-small cell lung cancer who have disease progression during or following platinum-containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving TECENTRIQ. (1.2)

**DOSAGE AND ADMINISTRATION**  
Administer 1200 mg as an intravenous infusion over 60 minutes every 3 weeks. (2.1)  
Dilute prior to intravenous infusion. (2.3)

**DOSAGE FORMS AND STRENGTHS**  
Injection: 1200 mg/20 mL (60 mg/mL) solution in a single-dose vial (3)

**CONTRAINDICATIONS**  
None. (4)

- WARNINGS AND PRECAUTIONS**
- Immune-Related Pneumonitis: Withhold for moderate and permanently discontinue for severe or life-threatening pneumonitis. (5.1)
  - Immune-Related Hepatitis: Monitor for changes in liver function. Withhold for moderate and permanently discontinue for severe or life-threatening transaminase or total bilirubin elevation. (5.2)
  - Immune-Related Colitis: Withhold for moderate or severe, and permanently discontinue for life-threatening colitis. (5.3)
  - Immune-Related Endocrinopathies (5.4):
    - Hypophysitis: Withhold for moderate or severe and permanently discontinue for life-threatening hypophysitis.
    - Thyroid Disorders: Monitor for changes in thyroid function. Withhold for symptomatic thyroid disease.
    - Adrenal Insufficiency: Withhold for symptomatic adrenal insufficiency.
    - Type 1 Diabetes Mellitus: Withhold for  $\geq$  Grade 3 hyperglycemia.
  - Immune-Related Myasthenia Gravis/Myasthenia Gravis, Guillain-Barré or Meningoencephalitis: Permanently discontinue for any grade. (5.5)
  - Ocular Inflammatory Toxicity: Withhold for moderate and permanently discontinue for severe or ocular inflammatory toxicity. (5.5)
  - Immune-Related Pancreatitis: Withhold for moderate or severe, and permanently discontinue for life-threatening pancreatitis, or any grade of recurring pancreatitis. (5.5)
  - Infection: Withhold for severe or life-threatening infection. (5.6)
  - Infusion Reaction: Interrupt or slow the rate of infusion for mild or moderate infusion reactions and discontinue for severe or life-threatening infusion reactions. (5.7)
  - Embryo-Fetal Toxicity: TECENTRIQ can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and use of effective contraception. (5.8, 8.1, 8.3)

- ADVERSE REACTIONS**  
Most common adverse reactions ( $\geq 20\%$ ) in patients with locally advanced or metastatic urothelial carcinoma were fatigue, decreased appetite, nausea, constipation, urinary tract infection, diarrhea, and pyrexia. (6.1)

**ADVERSE REACTIONS**  
Most common adverse reactions ( $\geq 20\%$ ) in patients with metastatic non-small cell lung cancer were fatigue, decreased appetite, dyspnea, cough, nausea, musculoskeletal pain, and constipation. (6.1)

**TO REPORT SUSPECTED ADVERSE REACTIONS, CONTACT GENENTECH AT 1-888-835-2555 OR FDA AT 1-800-FDA-1088 OR WWW.FDA.GOV/medwatch.**

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**REVISIONS**  
Revised: 4/2017

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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
3  
Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

**CONTRAINDICATIONS**  
None.

**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs and symptoms of radiographic imaging and for symptoms of pneumonitis. Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see Dosage and Administration (2.2)].

**DOSAGE AND ADMINISTRATION**  
**2.1 Recommended Dosing**  
The recommended dose of TECENTRIQ is 1200 mg administered as an intravenous infusion over 60 minutes every 3 weeks until disease progression or unacceptable toxicity. If the first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.

**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**REVISIONS**  
Revised: 4/2017

**TECENTRIQ® (atezolizumab) 3**

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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
3  
Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

**CONTRAINDICATIONS**  
None.

**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs and symptoms of radiographic imaging and for symptoms of pneumonitis. Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see Dosage and Administration (2.2)].

**DOSAGE AND ADMINISTRATION**  
**2.1 Recommended Dosing**  
The recommended dose of TECENTRIQ is 1200 mg administered as an intravenous infusion over 60 minutes every 3 weeks until disease progression or unacceptable toxicity. If the first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.

**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
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Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

**CONTRAINDICATIONS**  
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**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs and symptoms of radiographic imaging and for symptoms of pneumonitis. Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see Dosage and Administration (2.2)].

**DOSAGE AND ADMINISTRATION**  
**2.1 Recommended Dosing**  
The recommended dose of TECENTRIQ is 1200 mg administered as an intravenous infusion over 60 minutes every 3 weeks until disease progression or unacceptable toxicity. If the first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.

**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
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Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

**CONTRAINDICATIONS**  
None.

**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs and symptoms of radiographic imaging and for symptoms of pneumonitis. Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see Dosage and Administration (2.2)].

**DOSAGE AND ADMINISTRATION**  
**2.1 Recommended Dosing**  
The recommended dose of TECENTRIQ is 1200 mg administered as an intravenous infusion over 60 minutes every 3 weeks until disease progression or unacceptable toxicity. If the first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.

**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**REVISIONS**  
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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
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**CONTRAINDICATIONS**  
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**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
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**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

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Revised: 4/2017

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**CONTRAINDICATIONS**  
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**WARNINGS AND PRECAUTIONS**  
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**Dose Modifications**  
No dose reductions of TECENTRIQ are recommended.

**USE IN SPECIFIC POPULATIONS**  
**Lactation:** Advise not to breastfeed. (8.2)  
**See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.**

**REVISIONS**  
Revised: 4/2017

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**DOSAGE AND ADMINISTRATION**  
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**DOSAGE FORMS AND STRENGTHS**  
3  
Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

**CONTRAINDICATIONS**  
None.

**WARNINGS AND PRECAUTIONS**  
**5.1 Immune-Related Pneumonitis**  
Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs and symptoms of radiographic imaging and for symptoms of pneumonitis. Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see Dosage and Administration (2.2)].

**DOSAGE AND ADMINISTRATION**  
**2.1 Recommended**



**8 USE IN SPECIFIC POPULATIONS****8.1 Pregnancy****Risk Summary**

Based on its mechanism of action, TECENTRIQ can cause fetal harm when administered to a pregnant woman [see *Clinical Pharmacology* (12.1)]. There are no available data on the use of TECENTRIQ in pregnant women. Animal studies have demonstrated that inhibition of the PD-L1/PD-1 pathway can lead to increased risk of immune-related rejection of the developing fetus resulting in fetal death [see *Data*]. 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**

Reproduction studies have not been conducted with TECENTRIQ to evaluate its effect on reproduction and fetal development. A literature-based assessment of the effects on reproduction demonstrated that a central function of the PD-L1/PD-1 pathway is to preserve pregnancy by maintaining maternal immune tolerance to a fetus. Blockage of PD-L1 signaling has been shown in murine models of pregnancy to disrupt tolerance to a fetus and to result in an increase in fetal loss; therefore, potential risks of administering TECENTRIQ during pregnancy include increased rates of abortion or stillbirth. As reported in the literature, there were no malformations related to the blockade of PD-L1/PD-1 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 atezolizumab may increase the risk of developing immune-mediated disorders or altering the normal immune response.

**8.2 Lactation****Risk Summary**

There is no information regarding the presence of atezolizumab in human milk, the effects on the breastfed infant, or the effects on milk production. As human IgG is excreted in human milk, the potential for absorption and harm to the infant is unknown. Because of the potential for serious adverse reactions in breastfed infants from TECENTRIQ, advise a lactating woman not to breastfeed during treatment and for at least 5 months after the last dose.

**8.3 Females and Males of Reproductive Potential****Contraception****Females**

Based on its mechanism of action, TECENTRIQ 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 TECENTRIQ and for at least 5 months following the last dose.

**Infertility****Females**

Based on animal studies, TECENTRIQ may impair fertility in females of reproductive potential while receiving treatment [see *Nonclinical Toxicology* (13.1)].

**8.4 Pediatric Use**

The safety and effectiveness of TECENTRIQ have not been established in pediatric patients.

**8.5 Geriatric Use**

Of the 310 previously-treated patients with urothelial carcinoma treated with TECENTRIQ in Study 1, 59% were 65 years or older. Of the 142 patients with NSCLC treated with TECENTRIQ in Study 3, 39% were 65 years or older. No overall differences in safety or efficacy were observed between patients ≥ 65 years of age and younger patients.

Of the 119 cisplatin-ineligible patients with urothelial carcinoma treated with TECENTRIQ in Study 4, 83% were 65 years or older and 41% were 75 years or older. The overall response rate in patients 65 years or older was 23% (23/99) and in patients 75 years or older was 29% (14/49). Grade 3 or 4 adverse reactions occurred in 53% (52/99) of patients 65 years or older and 51% (25/49) of patients 75 years or older. No overall differences in safety or efficacy were observed between patients ≥ 75 years of age and younger patients.

**8.6 Renal Impairment**

Based on a population pharmacokinetic analysis, no dose adjustment of TECENTRIQ is recommended for patients with renal impairment [see *Clinical Pharmacology* (12.3)].

**8.7 Hepatic Impairment**

Based on a population pharmacokinetic analysis, no dose adjustment of TECENTRIQ is recommended for patients with mild hepatic impairment. TECENTRIQ has not been studied in patients with moderate or severe hepatic impairment [see *Clinical Pharmacology* (12.3)].

**10 OVERDOSAGE**

There is no information on overdose with TECENTRIQ.

**11 DESCRIPTION**

Atezolizumab is an Fc-engineered, humanized, monoclonal antibody that binds to PD-L1 and blocks interactions with the PD-1 and B7.1 receptors. Atezolizumab is a non-glycosylated IgG1 kappa immunoglobulin that has a calculated molecular mass of 145 kDa.

TECENTRIQ injection for intravenous infusion is a sterile, preservative-free, colorless to slightly yellow solution in single-dose vials. Each mL of TECENTRIQ contains 60 mg of atezolizumab and is formulated in glacial acetic acid (16.5 mg), L-histidine (62 mg), sucrose (821.6 mg), polysorbate 20 (8 mg), pH 5.8.

**12 CLINICAL PHARMACOLOGY****12.1 Mechanism of Action**

PD-L1 may be expressed on tumor cells and/or 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.

Atezolizumab is a monoclonal antibody that binds to PD-L1 and blocks its interactions with both PD-1 and B7.1 receptors. This releases the PD-L1/PD-1 mediated inhibition of the immune response, including activation of the anti-tumor immune response without inducing antibody-dependent cellular cytotoxicity. In syngeneic mouse tumor models, blocking PD-L1 activity resulted in decreased tumor growth.

**12.3 Pharmacokinetics**

Patients' exposures to atezolizumab increased dose proportionally over the dose range of 1 mg/kg to 20 mg/kg, including the fixed dose 1200 mg administered every 3 weeks. Based on a population analysis that included 472 patients in the dose range, the typical population clearance was 0.20 L/day, volume of distribution at steady state was 6.9 L, and the terminal half-life was 27 days. The population PK analysis suggests steady state is obtained after 6 to 9 weeks (2 to 3 cycles) of repeated dosing. The systemic accumulation in area under the curve (AUC), maximum concentration (C<sub>max</sub>) and trough concentration (C<sub>min</sub>) was 1.91, 1.46 and 2.75-fold, respectively. In a post hoc analysis, atezolizumab clearance was found to decrease over time, with a mean maximal reduction (% coefficient of variation [CV]) from baseline value of approximately 17.1% (40.6%). However, the decrease in CL was not considered clinically relevant.

*Specific Populations:* Age (21–89 years), body weight, gender, positive anti-therapeutic antibody (ATA) status, albumin levels, tumor burden, region or race, mild or moderate renal impairment (estimated glomerular filtration rate (eGFR) 30 to 89 mL/min/1.73 m<sup>2</sup>), mild hepatic impairment (bilirubin > ULN and AST > ULN or bilirubin < 1.0 to 1.5 × ULN and any AST), level of PD-L1 expression, and ECOG status had no clinically significant effect on the systemic exposure of atezolizumab.

The effect of severe renal impairment (eGFR 15 to 29 mL/min/1.73 m<sup>2</sup>) or moderate or severe hepatic impairment (bilirubin > ULN and AST > ULN or bilirubin ≥ 1.0 to 1.5 × ULN and any AST) on the pharmacokinetics of atezolizumab is unknown.

**Drug Interaction Studies**

The drug interaction potential of atezolizumab is unknown.

**13 NONCLINICAL TOXICOLOGY****13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

No studies have been performed to test the potential of atezolizumab for carcinogenicity or genotoxicity.

Animal fertility studies have not been conducted with atezolizumab; however, an assessment of the male and female reproductive organs was included in a 26-week, repeat-dose toxicity study in cynomolgus monkeys. Weekly administration of atezolizumab to female monkeys at the highest dose tested caused an irregular menstrual cycle pattern and a lack of newly formed corpora lutea in the ovaries. This effect occurred at an estimated AUC approximately 6 times the AUC in patients receiving the recommended dose and was reversible. There was no effect on the male monkey 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 Urothelial Carcinoma**

**Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Carcinoma**  
The efficacy of TECENTRIQ was investigated in Study 4, a multicenter, open-label, single-arm trial that included 119 patients with locally advanced or metastatic urothelial carcinoma who were ineligible for cisplatin-containing chemotherapy and were either previously untreated or had disease progression at least 12 months after neoadjuvant or adjuvant chemotherapy. Patients were considered cisplatin-ineligible if they met any one of the following criteria at study entry: impaired renal function (creatinine clearance of > 30 but < 60 mL/min), ECOG score of 2, hearing loss of ≥ 25 dB at two contiguous frequencies, or ≥ Grade 2 peripheral neuropathy. This study excluded patients who had: a history of autoimmune disease; active or corticosteroid-dependent brain metastases; administration of a live, attenuated vaccine within 28 days prior to enrollment; or administration of systemic immunostimulatory agents within 6 weeks or systemic immunosuppressive medications within 2 weeks prior to enrollment. Patients received an intravenous infusion of 1200 mg of TECENTRIQ every 3 weeks until unacceptable toxicity or disease progression. Tumor response assessments were conducted every 9 weeks for the first 54 weeks and every 12 weeks thereafter. Major efficacy outcome measures included confirmed objective response rate (ORR) as assessed by independent review facility (IRF) using Response Evaluation Criteria in Solid Tumors (RECIST v1.1), duration of response (DOR) and overall survival (OS).

NR = Not reached  
+ Denotes a censored value  
\* PD-L1 expression in tumor-infiltrating immune cells (IC)

	All Patients	PD-L1 Expression Subgroups	
	N=310	PD-L1 Expression of < 5% in IC* (N=210)	PD-L1 Expression of ≥ 5% in IC* (N=100)
<b>Number of IRF-assessed Confirmed Responders</b>	46	20	26
<b>ORR % (95% CI)</b>	<b>14.8% (11.1, 19.3)</b>	<b>9.5% (5.9, 14.3)</b>	<b>26.0% (17.7, 35.7)</b>
Complete Response (CR) (%)	5.5%	2.4%	12.0%
Partial Response (PR) (%)	9.4%	7.1%	14.0%
<b>Median DOR, months (range)</b>	NR (2.1+, 13.8+)	12.7 (2.1+, 12.7)	NR (4.2, 13.8+)

In this study, the median age was 73 years, 81% were male, and 91% were Caucasian. Thirty-five percent of patients had non-bladder urothelial carcinoma and 66% had visceral metastases. Eighty percent of patients had an ECOG score of 0-1. Reasons for patients' ineligibility for cisplatin-containing chemotherapy were: 70% had impaired renal function, 20% had an ECOG score of 2, 14% had a hearing loss of ≥ 25dB, and 6% had ≥ Grade 2 peripheral

neuropathy at baseline. Twenty percent of patients had disease progression following prior platinum-containing neoadjuvant or adjuvant chemotherapy.

Tumor specimens were evaluated prospectively using the Ventana PD-L1 (SP142) Assay at a central laboratory, and the results were used to define subgroups for pre-specified analyses. Of the 119 patients, 27% were classified as having PD-L1 expression of ≥ 5% (defined as PD-L1 stained tumor-infiltrating immune cells [IC] covering ≥ 5% of the tumor area). The remaining 73% of patients were classified as having PD-L1 expression of < 5% (PD-L1 stained tumor-infiltrating IC covering < 5% of the tumor area).

Confirmed ORR in all patients and the two PD-L1 subgroups are summarized in Table 7. The median follow-up time for this study was 14.4 months. In 24 patients with disease progression following neoadjuvant or adjuvant therapy, the ORR was 32.0% (95% CI: 16%, 55%).

**Table 7: Summary of Efficacy from Study 4**

	All Patients	PD-L1 Expression Subgroups	
	N=119	PD-L1 Expression of < 5% in ICs* (N=87)	PD-L1 Expression of ≥ 5% in ICs* (N=32)
<b>Number of IRF-assessed Confirmed Responders</b>	28	19	9
<b>ORR % (95% CI)</b>	<b>23.5% (16.2, 32.2)</b>	<b>21.8% (13.7, 32.0)</b>	<b>28.1% (13.8, 46.8)</b>
Complete Response (CR) (%)	6.7%	6.9%	6.3%
Partial Response (PR) (%)	16.8%	14.9%	21.9%
<b>Median DoR, months (range)</b>	NR (3.7, 16.6+)	NR (3.7, 16.6+)	NR (8.1, 15.6+)

NR = Not reached  
+ Denotes a censored value

\* PD-L1 expression in tumor-infiltrating immune cells (IC)

**14.2 Metastatic Non-Small Cell Lung Cancer**

**Previously Treated Patients with Locally Advanced or Metastatic Urothelial Carcinoma**  
The efficacy of TECENTRIQ was investigated in Study 1, a multicenter, open-label, single-arm trial that included 310 patients with locally advanced or metastatic urothelial carcinoma who had disease progression during or following a platinum-containing chemotherapy regimen or who had disease progression within 12 months of treatment with a platinum-containing neoadjuvant or adjuvant chemotherapy regimen. This study excluded patients who had: a history of autoimmune disease; active or corticosteroid-dependent brain metastases; administration of a live, attenuated vaccine within 28 days prior to enrollment; or administration of systemic immunostimulatory agents within 6 weeks or systemic immunosuppressive medications within 2 weeks prior to enrollment. Patients received an intravenous infusion of 1200 mg of TECENTRIQ every 3 weeks until unacceptable toxicity or either radiographic or clinical progression. Tumor response assessments were conducted every 9 weeks for the first 54 weeks and every 12 weeks thereafter. Major efficacy outcome measures included confirmed objective response rate (ORR) as assessed by independent review facility (IRF) using Response Evaluation Criteria in Solid Tumors (RECIST v1.1) and duration of response (DOR).

In this study, the median age was 66 years, 78% were male, 91% of patients were Caucasian. Twenty-six percent had non-bladder urothelial carcinoma and 78% of patients had visceral metastases. Sixty-two percent of patients had an ECOG score of 1 and 35% of patients had a baseline creatinine clearance of < 60 mL/min. Nineteen percent of patients had disease progression following prior platinum-containing neoadjuvant or adjuvant chemotherapy. Forty-one percent of patients had received ≥ 2 prior systemic regimens in the metastatic setting. Seventy-three percent of patients received prior cisplatin, 26% had prior carboplatin, and 1% were treated with other platinum-based regimens.

Tumor specimens were evaluated prospectively using the VENTANA PD-L1 (SP142) Assay at a central laboratory and the results were used to define subgroups for pre-specified analyses. Of the 310 patients, 32% were classified as having PD-L1 expression of ≥ 5% (defined as PD-L1 stained tumor-infiltrating immune cells [IC] covering ≥ 5% of the tumor area). The remaining 68% of patients were classified as having PD-L1 expression of < 5% (PD-L1 stained tumor-infiltrating IC covering < 5% of the tumor area).

Confirmed ORR in all patients and the two PD-L1 subgroups are summarized in Table 8. The median follow-up time for this study was 14.4 months. In 59 patients with disease progression following neoadjuvant or adjuvant therapy, the ORR was 22.0% (95% CI: 12.3%, 34.7%).

**Table 8: Summary of Efficacy from Study 1**

	All Patients	PD-L1 Expression Subgroups	
	N=310	PD-L1 Expression of < 5% in IC* (N=210)	PD-L1 Expression of ≥ 5% in IC* (N=100)
<b>Number of IRF-assessed Confirmed Responders</b>	46	20	26
<b>ORR % (95% CI)</b>	<b>14.8% (11.1, 19.3)</b>	<b>9.5% (5.9, 14.3)</b>	<b>26.0% (17.7, 35.7)</b>
Complete Response (CR) (%)	5.5%	2.4%	12.0%
Partial Response (PR) (%)	9.4%	7.1%	14.0%
<b>Median DOR, months (range)</b>	NR (2.1+, 13.8+)	12.7 (2.1+, 12.7)	NR (4.2, 13.8+)

NR = Not reached  
+ Denotes a censored value

\* PD-L1 expression in tumor-infiltrating immune cells (IC)

**14.2 Metastatic Non-Small Cell Lung Cancer****Previously Treated Patients with Metastatic NSCLC**

The efficacy of TECENTRIQ was investigated in two multicenter, international, randomized, open-label trials in patients with metastatic NSCLC who progressed during or following a platinum-containing regimen. Study 2 was a trial in 1225 patients with the primary analysis population consisting of the first 850 randomized patients and Study 3 was a trial in 287 patients. In both studies, eligible patients were stratified by PD-L1 expression status in tumor-infiltrating immune cells (IC), by the number of prior chemotherapy regimens, and by histology. Patients were randomized (1:1) to receive either TECENTRIQ administered intravenously at 1200 mg every 3 weeks until unacceptable toxicity or either radiographic or clinical progression or docetaxel administered intravenously at 75 mg/m<sup>2</sup> every 3 weeks until unacceptable toxicity or disease progression. These studies excluded patients who had: a history of autoimmune disease, had active or corticosteroid-dependent brain metastases, administration of a live, attenuated vaccine within 28 days prior to enrollment, administration of systemic immunostimulatory agents within 4 weeks or systemic immunosuppressive medications within 2 weeks prior to enrollment. Tumor assessments were conducted every 6 weeks for the first 36 weeks, and every 9 weeks thereafter. In Study 2, tumor specimens were evaluated prospectively for PD-L1 expression on tumor cells (TC) and IC using the VENTANA PD-L1 (SP142) Assay and the results were used to define the PD-L1 expression subgroups for the analyses described below.

In Study 2, among patients in the primary analysis population, the median age was 64 years (range: 33 to 85), and 61% of patients were male. The majority of patients were white (70%). Approximately three-fourths of patients had non-squamous disease (74%), 10% had known EGFR mutation, 0.2% had known ALK rearrangements, and most patients were current or previous smokers (82%). Baseline ECOG performance status was 0 (37%) or 1 (63%). Seventy five percent of patients received only one prior platinum-based therapeutic regimen. In Study 3, the median age was 62 years (range: 36 to 84), and 59% of patients were male. The majority of patients were white (79%). Approximately two-thirds of patients had non-squamous disease (66%), 7% had known EGFR mutation, 1% had ALK rearrangements, and most patients were current or previous smokers (80%). Baseline ECOG performance status was 0 (33%) or 1 (67%). Approximately two-thirds of patients received only one prior platinum-based therapeutic regimen.

The major efficacy outcome measure of Study 2 was overall survival (OS) in the primary analysis population (first 850 randomized patients). The major efficacy outcome measure of Study 3 was overall survival (OS). Other efficacy outcome measures for Study 3 included investigator-assessed objective response rates and duration of response per RECIST v1.1. The results of Study 2 with a median follow up of 21 months are presented in Table 9 and Figure 1.

**Table 9: Efficacy Results in the Primary Analysis Population from Study 2**

	TECENTRIQ (n=425)	Docetaxel (n=425)
<b>Overall Survival</b>		
Deaths (%)	271 (64%)	298 (70%)
Median, months (95% CI)	13.8 (11.8, 15.7)	9.6 (8.6, 11.2)
Hazard ratio <sup>†</sup> (95% CI)		0.74 (0.63, 0.87) p-value <sup>‡</sup>
		0.0004

\* Stratified by PD-L1 expression in tumor infiltrating immune cells, the number of prior chemotherapy regimens, and histology  
† Based on the stratified log-rank test  
‡ CI=confidence interval

**Figure 1: Kaplan-Meier Plot of Overall Survival in the Primary Analysis Population in Study 2****Table 10: Efficacy Results from Study 3**

	TECENTRIQ (n=144)	Docetaxel (n=143)
<b>Overall Survival</b>		
Deaths (%)	90 (63%)	110 (77%)
Median, months (95% CI)	12.6 (9.7, 16.0)	9.7 (8.6, 12.0)
Hazard ratio <sup>†</sup> (95% CI)		0.69 (0.52, 0.92)
<b>Objective Response Rate<sup>‡</sup> n (%)</b>	22 (15%) (10%, 22%)	21 (15%) (9%, 22%)
Complete response	1 (0.7%)	0
Partial response	21 (15%)	21 (15%)
<b>Duration of Response<sup>‡</sup></b>	n=22	n=21
Median (months) (95% CI)	18.6 (11.6, NE)	7.2 (5.6, 12.5)

\* Stratified by PD-L1 expression in tumor-infiltrating immune cells, the number of prior chemotherapy regimens, and histology  
† per RECIST v1.1 (Response Evaluation Criteria in Solid Tumors v1.1)  
‡ CI=confidence interval; NE=not estimable

**17 PATIENT COUNSELING INFORMATION****Advise the patient to read the FDA-approved patient labeling (Medication Guide).**

Inform patients of the risk of immune-related adverse reactions that may require corticosteroid treatment and interruption or discontinuation of TECENTRIQ, including:

- Pneumonitis: Advise patients to contact their healthcare provider immediately for any 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 hypophosphatemia, hyperthyroidism, hypothyroidism, adrenal insufficiency, or type 1 diabetes mellitus, including diabetic ketoacidosis [see *Warnings and Precautions* (5.4)].
- Meningoencephalitis, Myasthenic syndrome/Myasthenia Gravis, and Guillain-Barré syndrome: Advise patients to contact their healthcare provider immediately for signs or symptoms of meningitis, myasthenic syndrome/myasthenia gravis, or Guillain-Barré syndrome [see *Warnings and Precautions* (5.5)].
- Ocular Inflammatory Toxicity: Advise patients to contact their healthcare provider immediately for signs or symptoms of ocular inflammatory toxicity [see *Warnings and Precautions* (5.5)].
- Pancreatitis: Advise patients to contact their healthcare provider immediately for signs and symptoms of pancreatitis [see *Warnings and Precautions* (5.5)].
- Infection: Advise patients to contact their healthcare provider immediately for signs or symptoms of infection [see *Warnings and Precautions* (5.6)].
- Infusion-Related Reactions: Advise patients to contact their healthcare provider immediately for signs or symptoms of infusion-related reactions [see *Warnings and Precautions* (5.7)].
- Rash: Advise patients to contact their healthcare provider immediately for signs or symptoms of rash [see *Dosage and Administration* (2.2)].

Embryo-Fetal Toxicity  
Advise female patients that TECENTRIQ can cause fetal harm. Instruct females of reproductive potential to use effective contraception during treatment and for at least 5 months after the last dose of TECENTRIQ [see *Use in Specific Populations* (8.1, 8.3)].

Lactation  
Advise female patients not to breastfeed while taking TECENTRIQ and for at least 5 months after the last dose [see *Use in Specific Populations* (8.2)].

**Embryo-Fetal Toxicity**

Advise female patients that TECENTRIQ can cause fetal harm. Instruct females of reproductive potential to use effective contraception during treatment and for at least 5 months after the last dose of TECENTRIQ [see *Use in Specific Populations* (8.1, 8.3)].

**Lactation**

Advise female patients not to breastfeed while taking TECENTRIQ and for at least 5 months after the last dose [see *Use in Specific Populations* (8.2)].

**Intestinal problems (colitis).**

Signs and symptoms of colitis may include:

- diarrhea (loose stools) or more bowel movements than usual
- blood in your stools or dark, tarry, sticky stools
- severe stomach area (abdomen) pain or tenderness

**Hormone gland problems (especially the pituitary, thyroid, adrenal glands, and pancreas).**

Signs and symptoms that your hormone glands are not working properly may include:

- headaches that will not go away or unusual headaches
- extreme tiredness
- weight gain or weight loss
- dizziness or fainting
- feeling more hungry or thirsty than usual
- hair loss
- changes in mood or behavior, such as decreased sex drive, irritability, or forgetfulness
- feeling cold
- constipation
- your voice gets deeper
- urinating more often than usual
- nausea or vomiting
- stomach area (abdomen) pain

**Nervous system problems (neuropathy, meningitis, encephalitis).**

Signs and symptoms of nervous system problems may include:

- severe muscle weakness
- numbness or tingling in hands or feet
- fever
- confusion
- changes in mood or behavior
- extreme sensitivity to light
- neck stiffness

**Inflammation of the eyes.**

Signs and symptoms may include:

- blurry vision, double vision, or other vision problems
- eye pain or redness

**MEDICATION GUIDE****TECENTRIQ® (te-SEN-trik)****(atezolizumab) injection****What is the most important information I should know about TECENTRIQ?**

TECENTRIQ is a medicine that may treat your bladder cancer or lung cancer by working with your immune system. TECENTRIQ can cause your immune system to attack normal organs and tissues in many areas of your body and can affect the way they work. These problems can sometimes become serious or life-threatening and can lead to death.

**Call or see**