1 FULL PRESCRIBING INFORMATION

2 1 INDICATIONS AND USAGE

3 1.1 Locally Advanced or Metastatic Urothelial Carcinoma

4 TECENTRIQ (atezolizumab) is indicated for the treatment of patients with locally advanced or 5 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
- 9 This indication is approved under accelerated approval based on tumor response rate and
- 10 durability of response. Continued approval for this indication may be contingent upon
- 11 verification and description of clinical benefit in confirmatory trials [see Clinical Studies (14.1)].

12 **1.2 Metastatic Non-Small Cell Lung Cancer**

- 13 TECENTRIQ is indicated for the treatment of patients with metastatic non-small cell lung cancer
- 14 (NSCLC) who have disease progression during or following platinum-containing chemotherapy.
- 15 Patients with EGFR or ALK genomic tumor aberrations should have disease progression on
- 16 FDA-approved therapy for these aberrations prior to receiving TECENTRIQ [see Clinical
- 17 Studies (14.2)].

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18 2 DOSAGE AND ADMINISTRATION

19 2.1 Recommended Dosing

- 20 The recommended dose of TECENTRIQ is 1200 mg administered as an intravenous infusion
- 21 over 60 minutes every 3 weeks until disease progression or unacceptable toxicity. If the first
- 22 infusion is tolerated, all subsequent infusions may be delivered over 30 minutes. Do not
- 23 administer TECENTRIQ as an intravenous push or bolus.

24 **2.2 Dose Modifications**

- 25 No dose reductions of TECENTRIQ are recommended.
- 26 Withhold TECENTRIQ for any of the following:
 - Grade 2 pneumonitis [see Warnings and Precautions (5.1)]
- Aspartate aminotransferase (AST) or alanine aminotransferase (ALT) greater than 3 and up to 5 times upper limit of normal (ULN) or total bilirubin greater than 1.5 and up to 3 times ULN [see Warnings and Precautions (5.2)]
- Grade 2 or 3 diarrhea or colitis [see Warnings and Precautions (5.3)]
- Symptomatic hypophysitis, adrenal insufficiency, hypothyroidism, hyperthyroidism, or
 Grade 3 or 4 hyperglycemia [see Warnings and Precautions (5.4)]
- Grade 2 ocular inflammatory toxicity [see Warnings and Precautions (5.5)]
- Grade 2 or 3 pancreatitis, or Grade 3 or 4 increases in amylase or lipase levels (greater than 2.0 times ULN) [see Warnings and Precautions (5.5)]
- Grade 3 or 4 infection [see Warnings and Precautions (5.6)]
- Grade 2 infusion-related reactions [see Warnings and Precautions (5.7)]
- Grade 3 rash

40 TECENTRIQ may be resumed in patients whose adverse reactions recover to Grade 0–1.

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- 41 Permanently discontinue TECENTRIQ for any of the following:
- 42 Grade 3 or 4 pneumonitis [see Warnings and Precautions (5.1)]
- AST or ALT greater than 5 times ULN or total bilirubin greater than 3 times ULN [see
 Warnings and Precautions (5.2)]
- Grade 4 diarrhea or colitis [see Warnings and Precautions (5.3)]
- Grade 4 hypophysitis [see Warnings and Precautions (5.4)]
- 47 Myasthenic syndrome/myasthenia gravis, Guillain-Barré or meningoencephalitis (all grades) [see Warnings and Precautions (5.5)]
- Grade 3 or 4 ocular inflammatory toxicity [see Warnings and Precautions (5.5)]
- Grade 4 or any grade of recurrent pancreatitis [see Warnings and Precautions (5.5)]
- Grade 3 or 4 infusion-related reactions [see Warnings and Precautions (5.7)]
- Grade 4 rash

53 2.3 Preparation and Administration

54 **Preparation**

- 55 Visually inspect drug product for particulate matter and discoloration prior to administration
- 56 whenever solution and container permit. TECENTRIQ is a colorless to slightly yellow solution.
- 57 Discard the vial if the solution is cloudy, discolored, or visible particles are observed. Do not
- 58 shake the vial.
- 59 Prepare the solution for infusion as follows:
- Withdraw 20 mL of TECENTRIQ from the vial.
- Dilute into a 250 mL polyvinyl chloride (PVC), polyethylene (PE), or polyolefin (PO) infusion bag containing 0.9% Sodium Chloride Injection, USP.
- Dilute with 0.9% Sodium Chloride Injection only.
- Mix diluted solution by gentle inversion. Do not shake.
- Discard used or empty vials of TECENTRIQ.

66 Storage of Infusion Solution

67 This product does not contain a preservative.

Administer immediately once prepared. If diluted TECENTRIQ infusion solution is not used
 immediately, it can be stored either:

- At room temperature for no more than 6 hours from the time of preparation. This
 includes room temperature storage of the infusion in the infusion bag and time for
 administration for infusion.
- Under refrigeration at 2°C–8°C (36°F–46°F) for no more than 24 hours.
- 74 Do not freeze.
- 75 Do not shake.

76 Administration

- Administer the initial infusion over 60 minutes through an intravenous line with or without a
- 78 sterile, non-pyrogenic, low-protein binding in-line filter (pore size of 0.2–0.22 micron). If the
- 79 first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.
- 80 Do not co-administer other drugs through the same intravenous line.

81 **3 DOSAGE FORMS AND STRENGTHS**

82 Injection: 1200 mg/20 mL (60 mg/mL) colorless to slightly yellow solution in a single-dose vial.

83 4 CONTRAINDICATIONS

84 None.

85 5 WARNINGS AND PRECAUTIONS

86 5.1 Immune-Related Pneumonitis

- 87 Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of
- 88 corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ.
- 89 Monitor patients for signs with radiographic imaging and for symptoms of pneumonitis.
- 90 Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater
- 91 pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for
- 92 Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [see
- 93 Dosage and Administration (2.2)].
- 94 Across clinical trials, 2.6% (51/1978) of patients developed pneumonitis. Fatal pneumonitis
- 95 occurred in two patients.

96 Urothelial Carcinoma

- 97 In 523 patients with urothelial carcinoma who received TECENTRIQ, pneumonitis occurred in
- 98 six (1.1%) patients. Of these patients, there was one patient with fatal pneumonitis, one patient
- 99 with Grade 3, three patients with Grade 2, and one patient with Grade 1 pneumonitis.
- 100 TECENTRIQ was held in all cases. Pneumonitis resolved in three patients. The median time to
- 101 onset was 2.6 months (range: 15 days to 4.2 months). The median duration was 15 days (range:
- 102 6 days to 3.1+ months). Immune-mediated pneumonitis occurred in 5 (1.0%) patients.

103 NSCLC

- 104 In 1027 patients with NSCLC who received TECENTRIQ, pneumonitis occurred in 38 (3.7%)
- 105 patients. Of these patients, there was one patient with fatal pneumonitis, two patients with Grade
- 106 4, thirteen patients with Grade 3, eleven patients with Grade 2, and eleven patients with Grade 1
- 107 pneumonitis. TECENTRIQ was held in 24 patients and 21 patients were treated with
- 108 corticosteroids. Pneumonitis resolved in 26 of the 38 patients. The median time to onset was 3.3
- 109 months (range: 3 days to 18.7 months). The median duration was 1.4 months (range: 0 days to
- 110 12.6+ months).

111 5.2 Immune-Related Hepatitis

- 112 Immune-mediated hepatitis, defined as requiring use of corticosteroids and with no clear
- alternate etiology, occurred in patients receiving TECENTRIQ treatment. Liver test
- abnormalities occurred in patients who received TECENTRIQ. Monitor patients for signs and
- symptoms of hepatitis. Monitor AST, ALT, and bilirubin prior to and periodically during
- 116 treatment with TECENTRIQ. Administer corticosteroids at a dose of 1–2 mg/kg/day prednisone
- equivalents for Grade 2 or greater transaminase elevations, with or without concomitant
- elevation in total bilirubin, followed by corticosteroid taper. Withhold TECENTRIQ for Grade 2

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- and permanently discontinue TECENTRIQ for Grade 3 or 4 immune-mediated hepatitis [see
- 120 Dosage and Administration (2.2) and Adverse Reactions (6.1)].
- 121 Across clinical trials (n=1978), Grade 3 or 4 elevation occurred in ALT (2.5%), AST (2.3%), and
- 122 total bilirubin (1.6%).

123 Urothelial Carcinoma

- 124 In patients with urothelial carcinoma (n=523), Grade 3 or 4 elevation occurred in ALT (2.5%),
- 125 AST (2.5%), and total bilirubin (2.1%). Immune-mediated hepatitis occurred in 1.3% (7/523) of
- 126 patients. Of these cases, one patient died from hepatitis, five patients had Grade 3, and one
- 127 patient had Grade 2 hepatitis. The median time to onset was 1.1 months (range: 0.4 to 7.7
- 128 months). TECENTRIQ was temporarily interrupted in four patients; none of these patients
- 129 developed recurrence of hepatitis after resuming TECENTRIQ.

130 NSCLC

- 131 In patients with NSCLC, Grade 3 or 4 elevation occurred in ALT (1.4%), AST (1.3%), and total
- bilirubin (0.6%). Immune-mediated hepatitis occurred in 0.9% (9/1027) of patients. Of these nine
- patients, one patient had Grade 4, four patients had Grade 3, three patients had Grade 2, and one
- patient had Grade 1 immune-mediated hepatitis. The median time to onset was 28 days (range:
 135 days to 4.2 months). TECENTRIQ was temporarily interrupted in seven patients; none of
- 135 15 days to 4.2 monuns). TECENTRIQ was temporarily interrupted in seven patients; in 136 these patients developed recurrence of hepatitis after resuming TECENTRIQ.

137 5.3 Immune-Related Colitis

- 138 Immune-mediated colitis or diarrhea, defined as requiring use of corticosteroids and with no
- 139 clear alternate etiology, occurred in patients receiving TECENTRIQ. Monitor patients for signs
- and symptoms of diarrhea or colitis. Withhold treatment with TECENTRIQ for Grade 2 diarrhea
- or colitis. If symptoms persist for longer than 5 days or recur, administer 1–2 mg/kg prednisone
- or equivalent per day. Withhold treatment with TECENTRIQ for Grade 3 diarrhea or colitis.
 Treat with IV methylprednisolone 1–2 mg/kg per day and convert to oral steroids once the
- 145 Treat with 1v methylprednisolone 1-2 mg/kg per day and convert to oral steroids once the 144 patient has improved. For both Grade 2 and Grade 3 diarrhea or colitis, when symptoms
- improve to Grade 0 or Grade 1, taper steroids over ≥ 1 month. Resume treatment with
- 146 TECENTRIQ if the event improves to Grade 0 or 1 within 12 weeks and corticosteroids have
- been reduced to the equivalent of ≤ 10 mg oral prednisone per day. Permanently discontinue
- 148 TECENTRIQ for Grade 4 diarrhea or colitis *[see Dosage and Administration (2.2) and Adverse*
- 149 *Reactions* (6.1)].
- 150 Across clinical trials, colitis or diarrhea occurred in 19.7% (389/1978) of all patients.

151 Urothelial Carcinoma

- 152 In 523 patients with urothelial carcinoma who received TECENTRIQ, colitis or diarrhea
- 153 occurred in 98 (18.7%) patients. Ten patients (1.9%) developed Grade 3 or 4 diarrhea. Four
- 154 patients (0.8%) had immune-mediated colitis or diarrhea with a median time to onset of 1.7
- 155 months (range: 1.1 to 3.1 months). Immune-mediated colitis resolved with corticosteroid
- administration in three of these patients, while the other patient died without resolution of colitis
- 157 in the setting of diarrhea-associated renal failure.

158 NSCLC

- 159 In 1027 patients with NSCLC who received TECENTRIQ, colitis or diarrhea occurred in 198
- 160 (19.3%) patients. Twelve patients (1.2%) developed Grade 3 colitis or diarrhea. Five patients
- 161 (0.5%) had immune-mediated colitis or diarrhea with a median time to onset of 21 days (range:
- 162 12 days to 3.4 months). Of these patients, one had Grade 3, two had Grade 2, and two had Grade
- 163 1 immune-mediated colitis or diarrhea. Immune-mediated colitis or diarrhea resolved with

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- 164 corticosteroid administration in four of these patients, while the fifth patient died due to disease
- 165 progression prior to resolution of colitis.

166 5.4 Immune-Related Endocrinopathies

- 167 Immune-related thyroid disorders, adrenal insufficiency, and type 1 diabetes mellitus, including
- 168 diabetic ketoacidosis, have occurred in patients receiving TECENTRIQ. Monitor patients for
- 169 clinical signs and symptoms of endocrinopathies.

170 Hypophysitis

- 171 Hypophysitis occurred in 0.2% (1/523) of patients with urothelial cancer receiving
- 172 TECENTRIQ. Monitor for signs and symptoms of hypophysitis. Administer corticosteroids and
- 173 hormone replacement as clinically indicated. Withhold TECENTRIQ for Grade 2 or Grade 3
- and permanently discontinue for Grade 4 hypophysitis [see Dosage and Administration (2.2) and
- 175 Adverse Reactions (6.1)].

176 Thyroid Disorders

- 177 Thyroid function was assessed routinely only at baseline and the end of the study. Monitor
- 178 thyroid function prior to and periodically during treatment with TECENTRIQ. Asymptomatic
- 179 patients with abnormal thyroid function tests can receive TECENTRIQ. For symptomatic
- 180 hypothyroidism, withhold TECENTRIQ and initiate thyroid hormone replacement as needed.
- 181 Manage isolated hypothyroidism with replacement therapy and without corticosteroids. For
- 182 symptomatic hyperthyroidism, withhold TECENTRIQ and initiate an anti-thyroid drug as
- 183 needed. Resume treatment with TECENTRIQ when symptoms of hypothyroidism or
- 184 hyperthyroidism are controlled and thyroid function is improving [see Dosage and
- 185 Administration (2.2) and Adverse Reactions (6.1)].
- Across clinical trials, hypothyroidism and hyperthyroidism occurred in 3.9% (77/1978) and 1.0%
 (20/1978) of patients, respectively.

188 Urothelial Carcinoma

- 189 In 523 patients with urothelial carcinoma who received TECENTRIQ, hypothyroidism occurred
- 190 in 2.5% (13/523). One patient had Grade 3 and twelve patients had Grade 1–2 hypothyroidism.
- 191 The median time to first onset was 5.4 months (range: 21 days to 11.3 months). Thyroid
- stimulating hormone (TSH) was elevated and above the patient's baseline in 16% (21/131) of
- 193 patients with a follow-up measurement.
- 194 Hyperthyroidism occurred in 0.6% (3/523) of patients with urothelial carcinoma. Of the
- three urothelial carcinoma patients, one patient had Grade 2 and two patients had Grade 1
- hyperthyroidism. The median time to onset was 3.2 months (range: 1.4 to 5.8 months). TSH
- was decreased and below the patient's baseline in 3.8% (5/131) of patients with a follow-up
- 198 measurement.

199 NSCLC

- 200 In 1027 patients with NSCLC who received TECENTRIQ, hypothyroidism occurred in 4.2%
- 201 (43/1027). Three patients had Grade 3 and forty patients had Grade 1–2 hypothyroidism. The
- 202 median time to onset was 4.8 months (range 15 days to 31 months.) TSH was elevated and
- above the patient's baseline in 17% (54/315) of patients with follow-up measurement.
- 204 Hyperthyroidism occurred in 1.1% (11/1027) of patients with NSCLC. Eight patients had Grade
- 205 2 and three patients had Grade 1 hyperthyroidism. The median time to onset was 4.9 months
- 206 (range: 21 days to 31 months). TSH was decreased and below the patient's baseline in 7.6%
- 207 (24/315) of patients with a follow-up measurement.

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208 Adrenal Insufficiency

- 209 Adrenal insufficiency occurred in 0.4% (7/1978) of patients across clinical trials, including two
- 210 patients with Grade 3, four patients with Grade 2, and one patient with Grade 1. Adrenal
- 211 insufficiency resolved in two patients.
- 212 For symptomatic adrenal insufficiency, withhold TECENTRIQ and administer
- 213 methylprednisolone 1–2 mg/kg per day IV followed by oral prednisone 1–2 mg/kg per day or
- equivalent once symptoms improve. Start steroid taper when symptoms improve to \leq Grade 1
- and taper steroids over ≥ 1 month. Resume treatment with TECENTRIQ if the event improves
- 216 to \leq Grade 1 within 12 weeks and corticosteroids have been reduced to the equivalent of \leq 10 mg
- 217 oral prednisone per day and the patient is stable on replacement therapy, if required *[see Dosage*
- 218 and Administration (2.2) and Adverse Reactions (6.1)].

219 Diabetes Mellitus

- 220 New onset diabetes with ketoacidosis has occurred in patients receiving TECENTRIQ. Diabetes
- mellitus without an alternative etiology occurred in one (0.2%) patient with urothelial carcinoma and three (0.3%) patients with NSCLC.
- 223 Initiate treatment with insulin for type 1 diabetes mellitus. For \geq Grade 3 hyperglycemia (fasting
- 224 glucose >250–500 mg/dL), withhold TECENTRIQ. Resume treatment with TECENTRIQ when
- 225 metabolic control is achieved on insulin replacement therapy [see Dosage and Administration
- 226 (2.2) and Adverse Reactions (6.1)].

227 5.5 Other Immune-Related Adverse Reactions

- 228 Other immune-related adverse reactions including meningoencephalitis, myasthenic
- 229 syndrome/myasthenia gravis, Guillain-Barré, ocular inflammatory toxicity, and pancreatitis,
- 230 including increases in serum amylase and lipase levels, have occurred in $\leq 1.0\%$ of patients
- treated with TECENTRIQ.

232 Meningitis / Encephalitis

- 233 Monitor patients for clinical signs and symptoms of meningitis or encephalitis. Permanently
- 234 discontinue TECENTRIQ for any grade of meningitis or encephalitis. Treat with IV steroids (1–
- 235 2 mg/kg/day methylprednisolone or equivalent) and convert to oral steroids (prednisone
- 60 mg/day or equivalent) once the patient has improved. When symptoms improve to \leq Grade 1,
- taper steroids over ≥ 1 month [see Dosage and Administration (2.2) and Adverse Reactions
- 238 (6.1)].

239 Motor and Sensory Neuropathy

- 240 Monitor patients for symptoms of motor and sensory neuropathy. Permanently discontinue
- 241 TECENTRIQ for any grade of myasthenic syndrome/myasthenia gravis or Guillain-Barré
- 242 syndrome. Institute medical intervention as appropriate. Consider initiation of systemic
- corticosteroids at a dose of 1–2 mg/kg/day prednisone [see Dosage and Administration (2.2) and
- 244 Adverse Reactions (6.1)].

245 Pancreatitis

- 246 Symptomatic pancreatitis without an alternative etiology occurred in 0.1% (2/1978) of patients
- 247 across clinical trials. Monitor patients for signs and symptoms of acute pancreatitis. Withhold
- 248 TECENTRIQ for \geq Grade 3 serum amylase or lipase levels (> 2.0 ULN), or Grade 2 or 3
- 249 pancreatitis. Treat with 1–2 mg/kg IV methylprednisolone or equivalent per day. Once
- 250 symptoms improve, follow with 1–2 mg/kg of oral prednisone or equivalent per day. Resume
- 251 treatment with TECENTRIQ when serum amylase and lipase levels improve to \leq Grade 1 within

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- 252 12 weeks or symptoms of pancreatitis have resolved, and corticosteroids have been reduced to
- $253 \leq 10$ mg oral prednisone or equivalent per day. Permanently discontinue TECENTRIQ for
- 254 Grade 4 or any grade of recurrent pancreatitis [see Dosage and Administration (2.2) and Adverse
- 255 *Reactions* (6.1)].

256 **5.6 Infection**

- 257 Severe infections, including sepsis, herpes encephalitis, and mycobacterial infection leading to
- 258 retroperitoneal hemorrhage occurred in patients receiving TECENTRIQ. Monitor patients for
- signs and symptoms of infection and treat with antibiotics for suspected or confirmed bacterial
- 260 infections. Withhold TECENTRIQ for \geq Grade 3 infection [see Dosage and Administration
- 261 (2.2) and Adverse Reactions (6.1)].
- Across clinical trials, infections occurred in 38.4% (759/1978) of patients.

263 Urothelial Carcinoma

- 264 In 523 patients with urothelial carcinoma who received TECENTRIQ, infection occurred in 197
- 265 (37.7%) patients. Grade 3 or 4 infection occurred in sixty (11.5%) patients, while three patients
- died due to infections. Urinary tract infections were the most common cause of Grade 3 or
- higher infection, occurring in 37 (7.1%) patients.

268 NSCLC

- 269 In Study 3, a randomized trial in patients with NSCLC, infections were more common in patients
- treated with TECENTRIQ (43%) compared with those treated with docetaxel (34%). Grade 3 or
- 4 infections occurred in 9.2% of patients treated with TECENTRIQ compared with 2.2% in
- patients treated with docetaxel. Two patients (1.4%) treated with TECENTRIQ and three patients
- 273 (2.2%) treated with docetaxel died due to infection. Pneumonia was the most common cause of
- Grade 3 or higher infection, occurring in 7.7% of patients treated with TECENTRIQ.

275 5.7 Infusion-Related Reactions

- 276 Severe infusion reactions have occurred in patients in clinical trials of TECENTRIQ. Infusion-
- related reactions occurred in 1.3% (25/1978) of patients across clinical trials, 1.7% (9/523) of
 patients with urothelial carcinoma, and 1.6% (16/1027) of patients with NSCLC. Interrupt or
- slow the rate of infusion in patients with mild or moderate infusion reactions. Permanently
- discontinue TECENTRIQ in patients with Grade 3 or 4 infusion reactions [see Dosage and
- 281 Administration (2.2) and Adverse Reactions (6.1)].

282 5.8 Embryo-Fetal Toxicity

- Based on its mechanism of action, TECENTRIQ can cause fetal harm when administered to a pregnant woman. 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. 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. Advise females of reproductive potential
- to use effective contraception during treatment with TECENTRIQ and for at least 5 months after
- the last dose [see Use in Specific Populations (8.1, 8.3)].

290 6 ADVERSE REACTIONS

- 291 The following adverse reactions are discussed in greater detail in other sections of the label:
- Immune-Related Pneumonitis [see Warnings and Precautions (5.1)]
- Immune-Related Hepatitis [see Warnings and Precautions (5.2)]
- Immune-Related Colitis [see Warnings and Precautions (5.3)]

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- Immune-Related Endocrinopathies [see Warnings and Precautions (5.4)]
- Other Immune-Related Adverse Reactions [see Warnings and Precautions (5.5)]
- Infection [see Warnings and Precautions (5.6)]
- Infusion-Related Reactions [see Warnings and Precautions (5.7)]

299 6.1 Clinical Trials Experience

300 Because clinical trials are conducted under widely varying conditions, adverse reaction rates

301 observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials 302 of another drug and may not reflect the rates observed in practice.

303 Urothelial Carcinoma

304 Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Carcinoma

305 The safety of TECENTRIQ was evaluated in Study 4, a multicenter, open-label, single-arm trial

306 that included 119 patients with locally advanced or metastatic urothelial carcinoma who were

307 ineligible for cisplatin-containing chemotherapy and were either previously untreated or had

308 disease progression at least 12 months after neoadjuvant or adjuvant chemotherapy [see Clinical

309 *Studies (14.1)].* Patients received 1200 mg of TECENTRIQ intravenously every 3 weeks until

- 310 either unacceptable toxicity or disease progression. The median duration of exposure was
- 311 15.0 weeks (range 0, 87 weeks).
- The most common adverse reactions ($\geq 20\%$) were fatigue (52%), decreased appetite (24%),
- diarrhea (24%), and nausea (22%). The most common Grade 3–4 adverse reactions ($\geq 2\%$) were
- 314 fatigue, urinary tract infection, anemia, diarrhea, blood creatinine increase, intestinal obstruction,
- 315 ALT increase, hyponatremia, decreased appetite, sepsis, back/neck pain, renal failure, and
- 316 hypotension.
- 317 Five patients (4.2%) who were treated with TECENTRIQ experienced one of the following
- 318 events which led to death: sepsis, cardiac arrest, myocardial infarction, respiratory failure, or
- 319 respiratory distress. One additional patient (0.8%) was experiencing herpetic
- 320 meningoencephalitis and disease progression at the time of death. TECENTRIQ was
- 321 discontinued for adverse reactions in 4.2% (5/119) of patients. The adverse reactions leading to
- 322 discontinuation were diarrhea/colitis (1.7%), fatigue (0.8%), hypersensitivity (0.8%), and
- 323 dyspnea (0.8%). Adverse reactions leading to interruption of TECENTRIQ occurred in 35% of
- 324 patients, the most common ($\geq 1\%$) were intestinal obstruction, fatigue, diarrhea, urinary tract
- 325 infection, infusion related reaction, cough, abdominal pain, peripheral edema, pyrexia,
- 326 respiratory tract infection, upper respiratory tract infection, creatinine increase, decreased
- 327 appetite, hyponatremia, back pain, pruritus, and venous thromboembolism. Serious adverse
- reactions occurred in 37% of patients. The most frequent serious adverse reactions ($\geq 2\%$) were
- 329 diarrhea, intestinal obstruction, sepsis, acute kidney injury, and renal failure.
- 330 Immune-related adverse reactions requiring systemic corticosteroids or hormone replacement
- therapy occurred in 19.3% (23/119) patients, including 12.6% (15/119) patients who required
- 332 systemic corticosteroid therapy and 6.7% (8/119) patients who required only hormone
- 333 replacement therapy.
- 334 Six patients (5.0%) received an oral prednisone dose equivalent to \geq 40 mg daily for an immune-
- 335 mediated adverse reaction [see Warnings and Precautions (5)].
- Table 1 summarizes the adverse reactions that occurred in $\ge 10\%$ of patients and Table 2
- 337 summarizes Grade 3–4 selected laboratory abnormalities that occurred in $\ge 1\%$ of patients
- treated with TECENTRIQ in Study 4.

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Table 1: All Grade Adverse Reactions in \geq 10% of Patients with Urothelial Carcinoma in Study 4

	TECEN N =	
Adverse Reaction	All Grades	Grades 3–4
General Disorders	(%)	(%)
Fatigue ^a	52	8
Peripheral edema ^b	17	2
Pyrexia	14	0.8
Gastrointestinal Disorders		
Diarrhea ^c	24	5
Nausea	22	2
Vomiting	16	0.8
Constipation	15	2
Abdominal pain ^d	15	0.8
Metabolism and Nutrition Disorders		
Decreased appetite ^e	24	3
Musculoskeletal and Connective Tissue	e Disorders	<u> </u>
Back/Neck pain	18	3
Arthralgia	13	0
Skin and Subcutaneous Tissue Disorde	rs	
Pruritus	18	0.8
Rash ^r	17	0.8
Infections	I	1
Urinary tract infection ^g	17	5
Respiratory, Thoracic, and Mediastina	l Disorders	
Cough ^h	14	0
Dyspnea ⁱ	12	0

^a Includes fatigue, asthenia, lethargy, and malaise ^b Includes edema peripheral, scrotal edema, lymphedema, and edema

^c Includes diarrhea, colitis, frequent bowel movements, autoimmune colitis ^d Includes abdominal pain, upper abdominal pain, lower abdominal pain, and flank pain

^e Includes decreased appetite and early satiety

^f Includes rash, dermatitis, dermatitis acneiform, rash maculo-papular, rash erythematous, rash pruritic, rash macular, and rash papular

^g Includes urinary tract infection, urinary tract infection bacterial, cystitis, and urosepsis

^h Includes cough and productive cough

ⁱ Includes dyspnea and exertional dyspnea

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Table 2: Grade 3–4 Laboratory Abnormalities inPatients with Urothelial Carcinoma in Study 4 in $\geq 1\%$ of Patients

Laboratory Test	Grades 3–4 (%)
Hyponatremia	15
Hyperglycemia	10
Lymphopenia	9
Anemia	7
Increased Alkaline phosphatase	7
Increased Creatinine	5
Hypophosphatemia	4
Increased ALT	4
Increased AST	4
Hyperkalemia	3
Hypermagnesemia	3
Hyperbilirubinemia	3

344 Previously Treated Patients with Locally Advanced or Metastatic Urothelial Carcinoma

345 The safety of TECENTRIQ was evaluated in Study 1, a multicenter, open-label, single-arm trial

- 346 that included 310 patients in a single arm trial with locally advanced or metastatic urothelial
- 347 carcinoma who had disease progression during or following at least one platinum-containing
- 348 chemotherapy regimen or who had disease progression within 12 months of treatment with a
- 349 platinum-containing neoadjuvant or adjuvant chemotherapy regimen [see Clinical Studies
- 350 (14.1)]. Patients received 1200 mg of TECENTRIQ intravenously every 3 weeks until
- unacceptable toxicity or either radiographic or clinical progression. The median duration of
- 352 exposure was 12.3 weeks (range: 0.1, 46 weeks).
- 353 The most common adverse reactions ($\geq 20\%$) were fatigue (52%), decreased appetite (26%),
- nausea (25%), urinary tract infection (22%), pyrexia (21%), and constipation (21%). The most
- common Grade 3–4 adverse reactions ($\geq 2\%$) were urinary tract infection, anemia, fatigue,
- dehydration, intestinal obstruction, urinary obstruction, hematuria, dyspnea, acute kidney injury,
- abdominal pain, venous thromboembolism, sepsis, and pneumonia.
- 358 Three patients (1.0%) who were treated with TECENTRIQ experienced one of the following
- 359 events which led to death: sepsis, pneumonitis, or intestinal obstruction. TECENTRIQ was
- 360 discontinued for adverse reactions in 3.2% (10/310) of the 310 patients. Sepsis led to
- 361 discontinuation in 0.6% (2/310) of patients. Adverse reactions leading to interruption of
- 362 TECENTRIQ occurred in 27% of patients; the most common (> 1%) were liver enzyme
- 363 increase, urinary tract infection, diarrhea, fatigue, confusional state, urinary obstruction, pyrexia,
- 364 dyspnea, venous thromboembolism, and pneumonitis. Serious adverse reactions occurred in
- 45% of patients. The most frequent serious adverse reactions (> 2%) were urinary tract
- 366 infection, hematuria, acute kidney injury, intestinal obstruction, pyrexia, venous
- thromboembolism, urinary obstruction, pneumonia, dyspnea, abdominal pain, sepsis, andconfusional state.
- 369 Immune-related adverse reactions requiring systemic corticosteroids or hormone replacement
- therapy occurred in 11.0% (34/310) patients, including 8.4% (26/310) patients who required
- 371 systemic corticosteroid therapy and 2.6% (8/310) patients who required only hormone
- 372 replacement therapy.
- 373 Eighteen patients (5.8%) received an oral prednisone dose equivalent to \geq 40 mg daily for an
- immune-mediated adverse reaction [see Warnings and Precautions (5)].

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375 Table 3 summarizes the adverse reactions that occurred in $\ge 10\%$ of patients while Table 4

376 summarizes Grade 3–4 selected laboratory abnormalities that occurred in \geq 1% of patients

treated with TECENTRIQ in Study 1.

378

379

Table 3: All Grade Adverse Reactions in ≥ 10% of Patients with Urothelial Carcinoma in Study 1

	TECEN N=:	
Adverse Reaction	All Grades (%)	Grades 3–4 (%)
Gastrointestinal Disorders		
Nausea	25	2
Constipation	21	0.3
Diarrhea	18	1
Abdominal pain	17	4
Vomiting	17	1
General Disorders		
Fatigue	52	6
Pyrexia	21	1
Peripheral edema	18	1
Infections		
Urinary tract infection	22	9
Metabolism and Nutrition Disorders		
Decreased appetite	26	1
Musculoskeletal and Connective Tissue Di	isorders	
Back/Neck pain	15	2
Arthralgia	14	1
Renal and urinary disorders		
Hematuria	14	3
Respiratory, Thoracic, and Mediastinal D	isorders	1
Dyspnea	16	4
Cough	14	0.3
Skin and Subcutaneous Tissue Disorders	1	1
Rash	15	0.3
Pruritus	13	0.3

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Table 4: Grade 3–4 Laboratory Abnormalities in Patients with UrothelialCarcinoma in Study 1 in <a> 1% of Patients

Laboratory Test	Grades 3–4 (%)
Lymphopenia	10
Hyponatremia	10
Anemia	8
Hyperglycemia	5
Increased Alkaline phosphatase	4
Increased Creatinine	3
Increased ALT	2
Increased AST	2
Hypoalbuminemia	1

382 NSCLC

- 383 The safety of TECENTRIQ was evaluated in Study 3, a multicenter, international, randomized,
- 384 open-label trial in patients with metastatic NSCLC who progressed during or following a
- 385 platinum-containing regimen, regardless of PD-L1 expression [see Clinical Studies
- 386 (14.2)]. Patients received 1200 mg of TECENTRIQ (n=142) administered intravenously every 3
- 387 weeks until unacceptable toxicity or either radiographic or clinical progression or docetaxel
- 388 (n=135) administered intravenously at 75 mg/m² every 3 weeks until unacceptable toxicity or
- disease progression. The median duration of exposure was 3.7 months (range: 0–19 months) in
- 390 TECENTRIQ-treated patients and 2.1 months (range: 0–17 months) in docetaxel-treated patients.
- 391 The most common adverse reactions ($\geq 20\%$) in patients receiving TECENTRIQ were fatigue
- 392 (46%), decreased appetite (35%), dyspnea (32%), cough (30%), nausea (22%), musculoskeletal
- pain (22%), and constipation (20%). The most common Grade 3-4 adverse reactions ($\geq 2\%$) were
- 394 dyspnea, pneumonia, hypoxia, hyponatremia, fatigue, anemia, musculoskeletal pain, AST
- 395 increase, ALT increase, dysphagia, and arthralgia.
- 396 Nine patients (6.3%) who were treated with TECENTRIQ experienced either pulmonary
- 397 embolism (2), pneumonia (2), pneumothorax, ulcer hemorrhage, cachexia secondary to
- 398 dysphagia, myocardial infarction, or large intestinal perforation which led to death.
- 399 TECENTRIQ was discontinued due to adverse reactions in 4% (6/142) of patients. Adverse
- 400 reactions leading to interruption of TECENTRIQ occurred in 24% of patients; the most common
- 401 (>1%) were pneumonia, liver function test abnormality, upper respiratory tract infection,
- 402 pneumonitis, acute kidney injury, hypoxia, hypothyroidism, dyspnea, anemia, and fatigue.
- 403 Serious adverse reactions occurred in 37% of patients. The most frequent serious adverse
- 404 reactions (> 2%) were pneumonia, dyspnea, pleural effusion, pyrexia, and venous
- 405 thromboembolism.
- 406 Table 5 summarizes adverse reactions that occurred in at least 10% of TECENTRIQ-treated
- 407 patients and at a higher incidence than in the docetaxel arm. Table 6 summarizes selected
- 408 laboratory abnormalities worsening from baseline that occurred in $\geq 10\%$ of TECENTRIQ-
- 409 treated patients and at a higher incidence than in the docetaxel arm.

410

411

412

Table 5: Adverse Reactions Occurring in ≥10% of TECENTRIQ-Treated Patients with NSCLC and at a Higher Incidence than in the Docetaxel Arm (Between Arm Difference of ≥5% [All Grades] or ≥2% [Grades 3–4]) (Study 3)

		NTRIQ 142)		etaxel 135)
Adverse Reaction	All grades	Grade 3–4	All grades	Grade 3–4
		Percentage	(%) of Patients	
General Disorders				
Pyrexia	18	0	13	0
Infections				
Pneumonia	18	6	4	2
Metabolism and nutrition dis	orders			
Decreased appetite	35	1	22	0
Musculoskeletal and connect	ive tissue disorder	'S		
Arthralgia	16	2	9	2
Back pain	14	1	9	1
Psychiatric Disorders				
Insomnia	14	0	8	2
Respiratory, thoracic and me	diastinal disorder	18		
Dyspnea	32	7	24	2
Cough	30	1	25	0

413

- 414
- 415
- 416

Table 6: Selected Laboratory Abnormalities Worsening from Baseline Occurring in ≥10% of TECENTRIQ-Treated Patients with NSCLC and at a Higher Incidence than in the Docetaxel Arm (Between Arm Difference of ≥5% [All Grades] or ≥2% [Grades 3–4]) (Study 3)

		Percentage of Patie Laboratory Tes	nts with Worsening st from Baseline	
	TECENTRIQ		Docetaxel	
Test	All grades %	Grade 3–4 %	All grades %	Grade 3–4 %
Hyponatremia	48	13	28	8
Hypoalbuminemia	48	5	49	1
Alkaline Phosphatase increased	42	2	24	1
Aspartate aminotransferase increased	33	2	15	0
Alanine aminotransferase increased	31	2	9	1
Creatinine increased	19	1	14	2
Hypokalemia	18	2	11	4
Hypercalcemia	13	0	5	0
Total Bilirubin increased	11	0	5	1

417 6.2 Immunogenicity

- 418 As with all therapeutic proteins, there is a potential for immunogenicity. Among 275 patients in
- 419 Study 1, 114 patients (41.5%) tested positive for treatment-emergent (treatment-induced or
- 420 treatment-enhanced) anti-therapeutic antibodies (ATA) at one or more post-dose time points.
- 421 Among 135 patients in Study 3, 73 patients (54.1%) tested positive for treatment-emergent
- 422 ATAs at one or more post-dose time points. Among 111 patients in Study 4, 53 patients (47.7%)

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- 423 tested positive for treatment-emergent ATAs at one or more post-dose time points. In Study 1,
- 424 Study 3, and Study 4, the presence of ATAs did not appear to have a clinically significant impact
- 425 on pharmacokinetics, safety or efficacy.
- 426 Immunogenicity assay results are highly dependent on several factors, including assay sensitivity
- 427 and specificity, assay methodology, sample handling, timing of sample collection, concomitant
- 428 medications and underlying disease. For these reasons, comparison of incidence of ATAs to
- 429 TECENTRIQ with the incidence of antibodies to other products may be misleading.

430 8 USE IN SPECIFIC POPULATIONS

431 8.1 Pregnancy

432 <u>Risk Summary</u>

- 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.
- 438 becomes pregnant while taking this drug, advise the patient of the potential fisk to a fetus.
- 439 In the U.S. general population, the estimated background risk of major birth defects and
- 440 miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.
- 441 <u>Data</u>

442 Animal Data

- 443 Animal reproduction studies have not been conducted with TECENTRIQ to evaluate its effect on
- 444 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
- 446 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 fetalloss; 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
- 449 rates of abortion of stillorith. As reported in the interature, there were no manormations relate 450 the blockade of PD-L1/PD-1 signaling in the offspring of these animals; however, immune-
- 451 mediated disorders occurred in PD-1 and PD-L1 knockout mice. Based on its mechanism of
- 452 action, fetal exposure to atezolizumab may increase the risk of developing immune-mediated
- 453 disorders or altering the normal immune response.

454 8.2 Lactation

455 <u>Risk Summary</u>

- 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
- 457 breastied man, of the effects on mik production. As numan igo is excreted in numan mik, the 458 potential for absorption and harm to the infant is unknown. Because of the potential for serious
- 459 adverse reactions in breastfed infants from TECENTRIQ, advise a lactating woman not to breastfeed
- 460 during treatment and for at least 5 months after the last dose.

461 8.3 Females and Males of Reproductive Potential

462 <u>Contraception</u>

- 463 Females
- 464 Based on its mechanism of action, TECENTRIQ can cause fetal harm when administered to a 465 pregnant woman *[see Use in Specific Populations (8.1)]*. Advise females of reproductive

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- 466 potential to use effective contraception during treatment with TECENTRIQ and for at least
- 467 5 months following the last dose.

468 <u>Infertility</u>

- 469 Females
- 470 Based on animal studies, TECENTRIQ may impair fertility in females of reproductive potential 471 while receiving treatment *[see Nonclinical Toxicology (13.1)]*.

472 8.4 Pediatric Use

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

474 8.5 Geriatric Use

- 475 Of the 310 previously-treated patients with urothelial carcinoma treated with TECENTRIQ in
- 476 Study 1, 59% were 65 years or older. Of the 142 patients with NSCLC treated with
- 477 TECENTRIQ in Study 3, 39% were 65 years or older. No overall differences in safety or
- 478 efficacy were observed between patients ≥ 65 years of age and younger patients.
- 479 Of the 119 cisplatin-ineligible patients with urothelial carcinoma treated with TECENTRIQ in
- 480 Study 4, 83% were 65 years or older and 41% were 75 years or older. The overall response rate
- 481 in patients 65 years or older was 23% (23/99) and in patients 75 years or older was 29% (14/49).
- 482 Grade 3 or 4 adverse reactions occurred in 53% (52/99) of patients 65 years or older and 51%
- 483 (25/49) of patients 75 years or older. No overall differences in safety or efficacy were observed
- 484 between patients \geq 75 years of age and younger patients.

485 8.6 Renal Impairment

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

488 8.7 Hepatic Impairment

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

492 10 OVERDOSAGE

493 There is no information on overdose with TECENTRIQ.

494 **11 DESCRIPTION**

- 495 Atezolizumab is an Fc-engineered, humanized, monoclonal antibody that binds to PD-L1 and
- 496 blocks interactions with the PD-1 and B7.1 receptors. Atezolizumab is a non-glycosylated IgG1
- 497 kappa immunoglobulin that has a calculated molecular mass of 145 kDa.
- 498 TECENTRIQ injection for intravenous infusion is a sterile, preservative-free, colorless to
- 499 slightly yellow solution in single-dose vials. Each mL of TECENTRIQ contains 60 mg of
- 500 atezolizumab and is formulated in glacial acetic acid (16.5 mg), L-histidine (62 mg), sucrose
- 501 (821.6 mg), polysorbate 20 (8 mg), pH 5.8.

502 12 CLINICAL PHARMACOLOGY

503 12.1 Mechanism of Action

- 504 PD-L1 may be expressed on tumor cells and/or tumor-infiltrating immune cells and can
- 505 contribute to the inhibition of the anti-tumor immune response in the tumor microenvironment.
- 506 Binding of PD-L1 to the PD-1 and B7.1 receptors found on T cells and antigen presenting cells
- 507 suppresses cytotoxic T-cell activity, T-cell proliferation and cytokine production.

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

513 **12.3 Pharmacokinetics**

- 514 Patients' exposures to atezolizumab increased dose proportionally over the dose range of
- 515 1 mg/kg to 20 mg/kg, including the fixed dose 1200 mg administered every 3 weeks. Based on a
- 516 population analysis that included 472 patients in the dose range, the typical population clearance
- 517 was 0.20 L/day, volume of distribution at steady state was 6.9 L, and the terminal half-life was
- 518 27 days. The population PK analysis suggests steady state is obtained after 6 to 9 weeks (2 to 3
- 519 cycles) of repeated dosing. The systemic accumulation in area under the curve (AUC), maximum 520 $1.01 \pm 1.01 \pm 1.01$
- 520 concentration (Cmax) and trough concentration (Cmin) was 1.91, 1.46 and 2.75-fold,
- 521 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
- 524 relevant.
- 525 Specific Populations: Age (21–89 years), body weight, gender, positive anti-therapeutic
- 526 antibody (ATA) status, albumin levels, tumor burden, region or race, mild or moderate renal
- 527 impairment (estimated glomerular filtration rate (eGFR) 30 to 89 mL/min/1.73 m²), mild hepatic
- 528 impairment (bilirubin \leq ULN and AST > ULN or bilirubin \leq 1.0 to 1.5 \times ULN and any AST),
- 529 level of PD-L1 expression, or ECOG status had no clinically significant effect on the systemic
- 530 exposure of atezolizumab.
- 531 The effect of severe renal impairment (eGFR 15 to 29 mL/min/1.73 m²) or moderate or severe
- 532 hepatic impairment (bilirubin > ULN and AST > ULN or bilirubin ≥ 1.0 to $1.5 \times$ ULN and any
- 533 AST) on the pharmacokinetics of atezolizumab is unknown.
- 534 Drug Interaction Studies
- 535 The drug interaction potential of atezolizumab is unknown.

536 13 NONCLINICAL TOXICOLOGY

537 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

- 538 No studies have been performed to test the potential of atezolizumab for carcinogenicity or
- 539 genotoxicity.
- 540 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
- 542 in cynomolgus monkeys. Weekly administration of atezolizumab to female monkeys at the
- 543 highest dose tested caused an irregular menstrual cycle pattern and a lack of newly formed
- 544 corpora lutea in the ovaries. This effect occurred at an estimated AUC approximately 6 times the
- 545 AUC in patients receiving the recommended dose and was reversible. There was no effect on
- 546 the male monkey reproductive organs.
- 547 13.2 Animal Toxicology and/or Pharmacology
- 548 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
- 550 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
- 552 mice and mice receiving PD-L1 blocking antibody have also shown decreased survival following
- 553 infection with lymphocytic choriomeningitis virus.

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554 14 CLINICAL STUDIES

555 14.1 Urothelial Carcinoma

556 Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Carcinoma

557 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

- 559 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
- 561 were considered cisplatin-ineligible if they met any one of the following criteria at study entry: 562 impaired renal function (creatinine clearance of > 30 but < 60 mL/min), ECOG score of 2,
- hiparical reliant function (creating creating creating 0.50 but < 00 mL/mm), ECOG score 0.2, hearing loss of ≥ 25 dB at two contiguous frequencies, or \ge Grade 2 peripheral neuropathy. This
- solution for the study excluded patients who had: a history of autoimmune disease; active or corticosteroid-
- 565 dependent brain metastases; administration of a live, attenuated vaccine within 28 days prior to
- 566 enrollment; or administration of systemic immunostimulatory agents within 6 weeks or systemic
- 567 immunosuppressive medications within 2 weeks prior to enrollment. Patients received an
- 568 intravenous infusion of 1200 mg of TECENTRIQ every 3 weeks until unacceptable toxicity or
- 569 disease progression. Tumor response assessments were conducted every 9 weeks for the first
- 570 54 weeks and every 12 weeks thereafter. Major efficacy outcome measures included confirmed
- 571 objective response rate (ORR) as assessed by independent review facility (IRF) using Response
- 572 Evaluation Criteria in Solid Tumors (RECIST v1.1), duration of response (DoR) and overall
- 573 survival (OS).
- 574 In this study, the median age was 73 years, 81% were male, and 91% were Caucasian. Thirty-
- 575 five percent of patients had non-bladder urothelial carcinoma and 66% had visceral metastases.
- 576 Eighty percent of patients had an ECOG score of 0-1. Reasons for patients' ineligibility for
- 577 cisplatin-containing chemotherapy were: 70% had impaired renal function, 20% had an ECOG
- 578 score of 2, 14% had a hearing loss of \geq 25db, and 6% had \geq Grade 2 peripheral neuropathy at
- 579 baseline. Twenty percent of patients had disease progression following prior platinum-
- 580 containing neoadjuvant or adjuvant chemotherapy.
- 581 Tumor specimens were evaluated prospectively using the Ventana PD-L1 (SP142) Assay at a
- 582 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 \geq 5% (defined as PD-L1)
- stained tumor-infiltrating immune cells [IC] covering \geq 5% of the tumor area). The remaining
- 585 73% of patients were classified as having PD-L1 expression of < 5% (PD-L1 stained tumor-
- 586 infiltrating IC covering < 5% of the tumor area).
- 587 Confirmed ORR in all patients and the two PD-L1 subgroups are summarized in Table 7. The
- 588 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 33.0% (95% CI: 16%, 55%).

N=119	PD-L1 Expression of < 5% in ICs ¹ (N=87)	PD-L1 Expression of ≥ 5% in ICs ¹ (N=32)
28	19	9
(16.2, 32.2)	21.8% (13.7, 32.0)	28.1% (13.8, 46.8)
6.7%	6.9%	6.3%
16.8%	14.9%	21.9%
NR 7, 16.6+)	NR (3.7, 16.6+)	NR (8.1, 15.6+)
	16.8%	6.7% 6.9% 16.8% 14.9% NR NR

+ Denotes a censored value

¹ PD-L1 expression in tumor-infiltrating immune cells (ICs)

591 Previously Treated Patients with Locally Advanced or Metastatic Urothelial Carcinoma

592 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

594 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

596 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

live, attenuated vaccine within 28 days prior to enrollment, or administration of systemic
 immunostimulatory agents within 6 weeks or systemic immunosuppressive medications within 2

600 weeks prior to enrollment. Patients received an intravenous infusion of 1200 mg of

601 TECENTRIQ every 3 weeks until unacceptable toxicity or either radiographic or clinical

602 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

604 response rate (ORR) as assessed by independent review facility (IRF) using Response Evaluation

605 Criteria in Solid Tumors (RECIST v1.1) and duration of response (DOR).

606 In this study, the median age was 66 years, 78% were male, 91% of patients were Caucasian.

607 Twenty-six percent had non-bladder urothelial carcinoma and 78% of patients had visceral

608 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

610 progression following prior platinum-containing neoadjuvant or adjuvant chemotherapy. Forty-

611 one percent of patients had received ≥ 2 prior systemic regimens in the metastatic setting.

612 Seventy-three percent of patients received prior cisplatin, 26% had prior carboplatin, and 1%

613 were treated with other platinum-based regimens.

Tumor specimens were evaluated prospectively using the VENTANA PD-L1 (SP142) Assay at a

615 central laboratory and the results were used to define subgroups for pre-specified analyses. Of

- 616 the 310 patients, 32% were classified as having PD-L1 expression of \geq 5% (defined as PD-L1)
- 617 stained tumor-infiltrating immune cells [IC] covering $\geq 5\%$ of the tumor area). The remaining

618 68% of patients were classified as having PD-L1 expression of < 5% (PD-L1 stained tumor-

619 infiltrating IC covering < 5% of the tumor area).

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620 Confirmed ORR in all patients and the two PD-L1 subgroups are summarized in Table 8. The

621 median follow-up time for this study was 14.4 months. In 59 patients with disease progression

622 following neoadjuvant or adjuvant therapy, the ORR was 22.0% (95% CI: 12.3%, 34.7%).

623

Table 8: Summary of Efficacy from Study 1

	All Patients	PD-L1 Expression Subgroups		
	N=310	PD-L1 Expression of < 5% in IC ¹ (N=210)	PD-L1 Expression of \geq 5% in IC ¹ (N=100)	
Number of IRF-assessed Confirmed Responders	46	20	26	
ORR % (95% CI)	14.8% (11.1, 19.3)	9.5% (5.9, 14.3)	26.0% (17.7, 35.7)	
Complete Response (CR) (%)	5.5%	2.4%	12.0%	
Partial Response (PR) (%)	9.4%	7.1%	14.0%	
Median DOR, months (range)	NR (2.1+, 13.8+)	12.7 (2.1+, 12.7)	NR (4.2, 13.8+)	
NR = Not reached + Denotes a censored value ¹ PD-L1 expression in tumor-infilt	rating immune cells (IC)			

624 14.2 Metastatic Non-Small Cell Lung Cancer

625 **Previously Treated Patients with Metastatic NSCLC**

626 The efficacy of TECENTRIQ was investigated in two multicenter, international, randomized,

627 open-label trials in patients with metastatic NSCLC who progressed during or following a

628 platinum-containing regimen. Study 2 was a trial in 1225 patients with the primary analysis

629 population consisting of the first 850 randomized patients and Study 3 was a trial in 287 patients.

- 630 In both studies, eligible patients were stratified by PD-L1 expression status in tumor-infiltrating
- 631 immune cells (IC), by the number of prior chemotherapy regimens, and by histology. Patients
- 632 were randomized (1:1) to receive either TECENTRIQ administered intravenously at 1200 mg
- 633 every 3 weeks until unacceptable toxicity or either radiographic or clinical progression or
- docetaxel administered intravenously at 75 mg/m² every 3 weeks until unacceptable toxicity ordiscussion. These stables are bade a birty or a first stable toxicity of the stable toxicity of toxicity of the stable toxicity of the stable toxicity of toxicit
- 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
- 637 vaccine within 28 days prior to enrollment, administration of systemic immunostimulatory
- 638 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
- 640 9 weeks thereafter. In Study 2, tumor specimens were evaluated prospectively for PD-L1
- 641 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
- 644 (range: 33 to 85), and 61% of patients were male. The majority of patients were white (70%).
- 645 Approximately three-fourths of patients had non-squamous disease (74%), 10% had known
- 646 EGFR mutation, 0.2% had known ALK rearrangements, and most patients were current or
- 647 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,

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the median age was 62 years (range: 36 to 84), and 59% of patients were male. The majority of

650 patients were white (79%). Approximately two-thirds of patients had non-squamous disease

651 (66%), 7% had known EGFR mutation, 1% had ALK rearrangements, and most patients were

652 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

- 654 regimen.
- 655 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
- 657 Study 3 was overall survival (OS). Other efficacy outcome measures for Study 3 included
- 658 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.

660

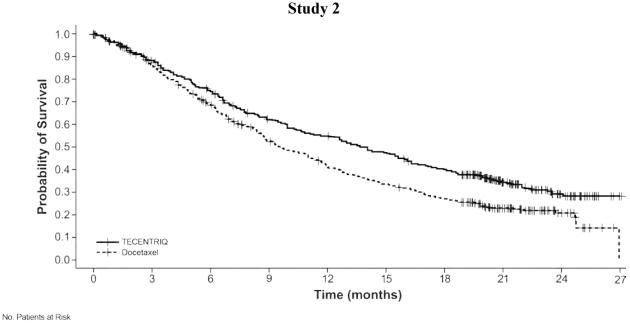
Table 9: Efficacy Results in the Primary Analysis Population from Study 2

	TECENTRIQ (n=425)	Docetaxel (n=425)
Overall Survival		
Deaths (%)	271 (64%)	298 (70%)
Median, months	13.8	9.6
(95% CI)	(11.8, 15.7)	(8.6, 11.2)
Hazard ratio ¹ (95% CI)	0.74 (0.6	53, 0.87)
p-value ²	0.00	004
¹ Stratified by PD-L1 expression in tumor infiltr histology ² Based on the stratified log-rank test	rating immune cells, the number of prior ch	emotherapy regimens, and

CI=confidence interval

661 Figure 1: Kaplan-Meier Plot of Overall Survival in the Primary Analysis Population in

662



 TECENTRIQ
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664 Tumor specimens were evaluated prospectively using the VENTANA PD-L1 (SP142) Assay at a

- 665 central laboratory and the results were used to define the PD-L1 expression subgroups for pre-
- 666 specified analyses. Of the 850 patients, 16% were classified as having high PD-L1 expression,
- 667 defined as having PD-L1 expression on \geq 50% of TC or \geq 10% of IC. In an exploratory efficacy

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- subgroup analysis of OS based on PD-L1 expression, the hazard ratio was 0.41 (95% CI: 0.27,
- 669 0.64) in the high PD-L1 expression subgroup and 0.82 (95% CI: 0.68, 0.98) in patients who did
- 670 not have high PD-L1 expression.
- 671 Results of an updated survival analysis in Study 3 with a median follow-up of 22 months are
- 672 provided for all randomized patients (Table 10 and Figure 2).
- 673

Table 10: Efficacy Results from Study 3

	TECENTRIQ (n=144)	Docetaxel (n=143)
Overall Survival		
Deaths (%)	90 (63%)	110 (77%)
Median, months	12.6	9.7
(95% CI)	(9.7, 16.0)	(8.6, 12.0)
Hazard ratio ¹ (95% CI)	0.69 (0.5	52, 0.92)
Objective Response Rate² n (%)	22 (15%)	21 (15%)
(95% CI)	(10%, 22%)	(9%, 22%)
Complete response	1 (0.7%)	0
Partial response	21 (15%)	21 (15%)
Duration of Response ²	n=22	n=21
Median (months)	18.6	7.2
(95% CI)	(11.6, NE)	(5.6, 12.5)

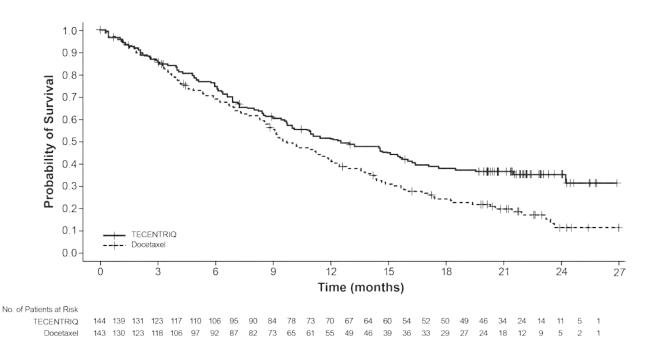
¹ Stratified by PD-L1 expression in tumor-infiltrating immune cells, the number of prior chemotherapy regimens, and histology ² per RECIST v1.1 (Response Evaluation Criteria in Solid Tumors v1.1)

CI=confidence interval; NE=not estimable

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Figure 2: Kaplan-Meier Plot of updated Overall Survival in Study 3



676 16 HOW SUPPLIED/STORAGE AND HANDLING

677 TECENTRIQ injection is a sterile, preservative-free, and colorless to slightly yellow solution for 678 intravenous infusion supplied as a carton containing one 1200 mg/20 mL single-dose vial (NDC

679 50242-917-01).

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- 680 **Storage:** Store vials under refrigeration at 2°C to 8°C (36°F to 46°F) in original carton to protect
- 681 from light. Do not freeze. Do not shake.

682 17 PATIENT COUNSELING INFORMATION

- 683 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 hypophysitis, 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)].
- 714 <u>Embryo-Fetal Toxicity</u>
- 715 Advise female patients that TECENTRIQ can cause fetal harm. Instruct females of
- 716 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)].
- 718 <u>Lactation</u>
- 719 Advise female patients not to breastfeed while taking TECENTRIQ and for at least 5 months 720 $= 10^{-10}$ $= 10^{-10$
- after the last dose [see Use in Specific Populations (8.2)].

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TECENTRIQ[®] [atezolizumab]

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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 your healthcare provider right away if you get any symptoms of the following problems or these symptoms get worse:

Lung problems (pneumonitis). Signs and symptoms of pneumonitis may include:

new or worsening cough • shortness of breath •

Liver problems (hepatitis). Signs and symptoms of hepatitis may include:

- yellowing of your skin or the whites of your eyes
- severe nausea or vomiting •
- pain on the right side of your stomach area (abdomen)
- drowsiness

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:

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- headaches that will not go away or unusual headaches •
- extreme tiredness •
- weight gain or weight loss •
- dizziness or fainting •
- ٠ feeling more hungry or thirsty than usual
- ٠ hair loss
- changes in mood or behavior, such as decreased sex drive, irritability, or forgetfulness •

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 •

Inflammation of the eyes. Signs and symptoms may include:

- blurry vision, double vision, or other vision problems •
- Severe infections. Signs and symptoms of infection may include:
- fever •
- cough
- frequent urination ٠

Severe infusion reactions. Signs and symptoms of infusion reactions may include:

- chills or shaking •
- itching or rash •
- flushing •
- shortness of breath or wheezing •
- swelling of your face or lips •
- 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 TECENTRIQ. Your healthcare provider may treat you with corticosteroid or hormone replacement medicines. Your healthcare provider may delay or completely stop treatment with TECENTRIQ if you have severe side effects.

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Reference ID: 4085236

- changes in mood or behavior
- extreme sensitivity to light
- neck stiffness
- eye pain or redness
- flu-like symptoms
- pain when urinating

- dizziness
- fever •
- feeling like passing out •
- back or neck pain

- feeling cold constipation your voice gets deeper
- urinating more often than usual

nausea or vomiting

stomach area (abdomen) pain

dark urine (tea colored)

feeling less hungry than usual

chest pain

bleeding or bruising more easily than normal

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What is TECENTRIQ?

TECENTRIQ is a prescription medicine used to treat:

a type of bladder and urinary tract cancer called urothelial carcinoma.

- TECENTRIQ may be used when your bladder cancer:
- o has spread or cannot be removed by surgery (advanced urothelial carcinoma), and
- o you are not able to take chemotherapy that contains a medicine called cisplatin, or
- you have tried chemotherapy that contains platinum, and it did not work or is no longer working.

a type of lung cancer called non-small cell lung cancer (NSCLC)

• TECENTRIQ may be used when your lung cancer:

- o has spread or grown, and
- o you have tried chemotherapy that contains platinum, and it did not work or is no longer working.

If your tumor has an abnormal EGFR or ALK gene, you should have also tried an FDA-approved therapy for tumors with these abnormal genes, and it did not work or is no longer working.

It is not known if TECENTRIQ is safe and effective in children.

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

- have immune system problems such as Crohn's disease, ulcerative colitis, or lupus
- have had an organ transplant
- have lung or breathing problems
- have liver problems
- have a condition that affects your nervous system, such as myasthenia gravis or Guillain-Barré syndrome
- are being treated for an infection
- are pregnant or plan to become pregnant. TECENTRIQ 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 5 months after the last dose of TECENTRIQ.
- are breastfeeding or plan to breastfeed. It is not known if TECENTRIQ passes into your breast milk. Do not breastfeed during treatment and for at least 5 months after the last dose of TECENTRIQ.

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 TECENTRIQ?

- Your healthcare provider will give you TECENTRIQ into your vein through an intravenous (IV) line over 30 to 60 minutes.
- TECENTRIQ is usually given every 3 weeks.
- Your healthcare provider will decide how many treatments you need.
- Your healthcare provider will test your blood 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 TECENTRIQ?

TECENTRIQ can cause serious side effects, including:

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

The most common side effects of TECENTRIQ in people with urothelial carcinoma include:

- feeling tired
- decreased appetite
- nausea
- constipation

The most common side effects of TECENTRIQ in people with non-small cell lung cancer include:

- feeling tired
- decreased appetite
- shortness of breath
 - cough

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TECENTRIQ may cause fertility problems in females, which may affect the ability to have children. Talk to your healthcare provider if you have concerns about fertility.

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These are not all the possible side effects of TECENTRIQ. 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 TECENTRIQ.

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urinary tract infection

muscle or bone pain

- diarrhea
- fever

nausea

constipation

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

What are the ingredients in TECENTRIQ?

Active ingredient: atezolizumab

Inactive ingredients: glacial acetic acid, L-histidine, sucrose, polysorbate 20

Manufactured by: Genentech, Inc., A Member of the Roche Group, 1 DNA Way, South San Francisco, CA 94080-4990 USA

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

Revised: 4/2017