

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

RECENT MAJOR CHANGES

| | |
|--------------------------------|--------|
| Indications and Usage (1.1) | 4/2017 |
| Warnings and Precautions (5.5) | 3/2018 |

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 Myasthenic Syndrome/Myasthenia Gravis, Guillain-Barré or Meningoencephalitis: Permanently discontinue for any grade. (5.5)
- Ocular Inflammatory Toxicity: Withhold for moderate and permanently discontinue for severe 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)

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.

Revised: 3/2018

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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:

- 6 • are not eligible for cisplatin-containing chemotherapy, or
7 • have disease progression during or following any platinum-containing chemotherapy, or
8 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)*].

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:

- 27 • Grade 2 pneumonitis [see *Warnings and Precautions (5.1)*]
28 • Aspartate aminotransferase (AST) or alanine aminotransferase (ALT) greater than 3 and
29 up to 5 times upper limit of normal (ULN) or total bilirubin greater than 1.5 and up to
30 3 times ULN [see *Warnings and Precautions (5.2)*]
31 • Grade 2 or 3 diarrhea or colitis [see *Warnings and Precautions (5.3)*]
32 • Symptomatic hypophysitis, adrenal insufficiency, hypothyroidism, hyperthyroidism, or
33 Grade 3 or 4 hyperglycemia [see *Warnings and Precautions (5.4)*]
34 • Grade 2 ocular inflammatory toxicity [see *Warnings and Precautions (5.5)*]
35 • Grade 2 or 3 pancreatitis, or Grade 3 or 4 increases in amylase or lipase levels (greater
36 than 2.0 times ULN) [see *Warnings and Precautions (5.5)*]
37 • Grade 2 myocarditis [see *Warnings and Precautions (5.5)*]
38 • Grade 3 or 4 infection [see *Warnings and Precautions (5.6)*]
39 • Grade 2 infusion-related reactions [see *Warnings and Precautions (5.7)*]
40 • Grade 3 rash

- 41 TECENTRIQ may be resumed in patients whose adverse reactions recover to Grade 0–1.
- 42 Permanently discontinue TECENTRIQ for any of the following:
- 43 • Grade 3 or 4 pneumonitis [*see Warnings and Precautions (5.1)*]
 - 44 • AST or ALT greater than 5 times ULN or total bilirubin greater than 3 times ULN [*see*
45 *Warnings and Precautions (5.2)*]
 - 46 • Grade 4 diarrhea or colitis [*see Warnings and Precautions (5.3)*]
 - 47 • Grade 4 hypophysitis [*see Warnings and Precautions (5.4)*]
 - 48 • Myasthenic syndrome/myasthenia gravis, Guillain-Barré or meningoencephalitis (all
49 grades) [*see Warnings and Precautions (5.5)*]
 - 50 • Grade 3 or 4 ocular inflammatory toxicity [*see Warnings and Precautions (5.5)*]
 - 51 • Grade 4 or any grade of recurrent pancreatitis [*see Warnings and Precautions (5.5)*]
 - 52 • Grade 3 or 4 myocarditis [*see Warnings and Precautions (5.5)*]
 - 53 • Grade 3 or 4 infusion-related reactions [*see Warnings and Precautions (5.7)*]
 - 54 • Grade 4 rash

55 **2.3 Preparation and Administration**

56 **Preparation**

57 Visually inspect drug product for particulate matter and discoloration prior to administration
58 whenever solution and container permit. TECENTRIQ is a colorless to slightly yellow solution.
59 Discard the vial if the solution is cloudy, discolored, or visible particles are observed. Do not
60 shake the vial.

61 Prepare the solution for infusion as follows:

- 62 • Withdraw 20 mL of TECENTRIQ from the vial.
- 63 • Dilute into a 250 mL polyvinyl chloride (PVC), polyethylene (PE), or polyolefin (PO)
64 infusion bag containing 0.9% Sodium Chloride Injection, USP.
- 65 • Dilute with 0.9% Sodium Chloride Injection only.
- 66 • Mix diluted solution by gentle inversion. Do not shake.
- 67 • Discard used or empty vials of TECENTRIQ.

68 **Storage of Infusion Solution**

69 This product does not contain a preservative.

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

- 72 • At room temperature for no more than 6 hours from the time of preparation. This
73 includes room temperature storage of the infusion in the infusion bag and time for
74 administration for infusion.
- 75 • Under refrigeration at 2°C–8°C (36°F–46°F) for no more than 24 hours.

76 Do not freeze.

77 Do not shake.

78 **Administration**

79 Administer the initial infusion over 60 minutes through an intravenous line with or without a
80 sterile, non-pyrogenic, low-protein binding in-line filter (pore size of 0.2–0.22 micron). If the
81 first infusion is tolerated, all subsequent infusions may be delivered over 30 minutes.

82 Do not co-administer other drugs through the same intravenous line.

83 **3 DOSAGE FORMS AND STRENGTHS**

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

85 **4 CONTRAINDICATIONS**

86 None.

87 **5 WARNINGS AND PRECAUTIONS**

88 **5.1 Immune-Related Pneumonitis**

89 Immune-mediated pneumonitis or interstitial lung disease, defined as requiring use of
90 corticosteroids and with no clear alternate etiology, occurred in patients receiving TECENTRIQ.
91 Monitor patients for signs with radiographic imaging and for symptoms of pneumonitis.

92 Administer steroids at a dose of 1 to 2 mg/kg/day prednisone equivalents for Grade 2 or greater
93 pneumonitis, followed by corticosteroid taper. Withhold TECENTRIQ until resolution for
94 Grade 2 pneumonitis. Permanently discontinue TECENTRIQ for Grade 3 or 4 pneumonitis [*see*
95 *Dosage and Administration (2.2)*].

96 Across clinical trials, 2.6% (51/1978) of patients developed pneumonitis. Fatal pneumonitis
97 occurred in two patients.

98 **Urothelial Carcinoma**

99 In 523 patients with urothelial carcinoma who received TECENTRIQ, pneumonitis occurred in
100 six (1.1%) patients. Of these patients, there was one patient with fatal pneumonitis, one patient
101 with Grade 3, three patients with Grade 2, and one patient with Grade 1 pneumonitis.

102 TECENTRIQ was held in all cases. Pneumonitis resolved in three patients. The median time to
103 onset was 2.6 months (range: 15 days to 4.2 months). The median duration was 15 days (range:
104 6 days to 3.1+ months). Immune-mediated pneumonitis occurred in 5 (1.0%) patients.

105 **NSCLC**

106 In 1027 patients with NSCLC who received TECENTRIQ, pneumonitis occurred in 38 (3.7%)
107 patients. Of these patients, there was one patient with fatal pneumonitis, two patients with Grade
108 4, thirteen patients with Grade 3, eleven patients with Grade 2, and eleven patients with Grade 1
109 pneumonitis. TECENTRIQ was held in 24 patients and 21 patients were treated with
110 corticosteroids. Pneumonitis resolved in 26 of the 38 patients. The median time to onset was 3.3
111 months (range: 3 days to 18.7 months). The median duration was 1.4 months (range: 0 days to
112 12.6+ months).

113 **5.2 Immune-Related Hepatitis**

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

121 and permanently discontinue TECENTRIQ for Grade 3 or 4 immune-mediated hepatitis [*see*
122 *Dosage and Administration (2.2) and Adverse Reactions (6.1)*].

123 Across clinical trials (n=1978), Grade 3 or 4 elevation occurred in ALT (2.5%), AST (2.3%), and
124 total bilirubin (1.6%).

125 **Urothelial Carcinoma**

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

132 **NSCLC**

133 In patients with NSCLC, Grade 3 or 4 elevation occurred in ALT (1.4%), AST (1.3%), and total
134 bilirubin (0.6%). Immune-mediated hepatitis occurred in 0.9% (9/1027) of patients. Of these nine
135 patients, one patient had Grade 4, four patients had Grade 3, three patients had Grade 2, and one
136 patient had Grade 1 immune-mediated hepatitis. The median time to onset was 28 days (range:
137 15 days to 4.2 months). TECENTRIQ was temporarily interrupted in seven patients; none of
138 these patients developed recurrence of hepatitis after resuming TECENTRIQ.

139 **5.3 Immune-Related Colitis**

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

152 Across clinical trials, colitis or diarrhea occurred in 19.7% (389/1978) of all patients.

153 **Urothelial Carcinoma**

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

160 **NSCLC**

161 In 1027 patients with NSCLC who received TECENTRIQ, colitis or diarrhea occurred in 198
162 (19.3%) patients. Twelve patients (1.2%) developed Grade 3 colitis or diarrhea. Five patients
163 (0.5%) had immune-mediated colitis or diarrhea with a median time to onset of 21 days (range:
164 12 days to 3.4 months). Of these patients, one had Grade 3, two had Grade 2, and two had Grade
165 1 immune-mediated colitis or diarrhea. Immune-mediated colitis or diarrhea resolved with

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

168 **5.4 Immune-Related Endocrinopathies**

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

172 ***Hypophysitis***

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

178 ***Thyroid Disorders***

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

188 Across clinical trials, hypothyroidism and hyperthyroidism occurred in 3.9% (77/1978) and 1.0%
189 (20/1978) of patients, respectively.

190 **Urothelial Carcinoma**

191 In 523 patients with urothelial carcinoma who received TECENTRIQ, hypothyroidism occurred
192 in 2.5% (13/523). One patient had Grade 3 and twelve patients had Grade 1–2 hypothyroidism.
193 The median time to first onset was 5.4 months (range: 21 days to 11.3 months). Thyroid
194 stimulating hormone (TSH) was elevated and above the patient’s baseline in 16% (21/131) of
195 patients with a follow-up measurement.

196 Hyperthyroidism occurred in 0.6% (3/523) of patients with urothelial carcinoma. Of the
197 three urothelial carcinoma patients, one patient had Grade 2 and two patients had Grade 1
198 hyperthyroidism. The median time to onset was 3.2 months (range: 1.4 to 5.8 months). TSH
199 was decreased and below the patient’s baseline in 3.8% (5/131) of patients with a follow-up
200 measurement.

201 **NSCLC**

202 In 1027 patients with NSCLC who received TECENTRIQ, hypothyroidism occurred in 4.2%
203 (43/1027). Three patients had Grade 3 and forty patients had Grade 1–2 hypothyroidism. The
204 median time to onset was 4.8 months (range 15 days to 31 months.) TSH was elevated and
205 above the patient’s baseline in 17% (54/315) of patients with follow-up measurement.

206 Hyperthyroidism occurred in 1.1% (11/1027) of patients with NSCLC. Eight patients had Grade
207 2 and three patients had Grade 1 hyperthyroidism. The median time to onset was 4.9 months
208 (range: 21 days to 31 months). TSH was decreased and below the patient’s baseline in 7.6%
209 (24/315) of patients with a follow-up measurement.

210 ***Adrenal Insufficiency***

211 Adrenal insufficiency occurred in 0.4% (7/1978) of patients across clinical trials, including two
212 patients with Grade 3, four patients with Grade 2, and one patient with Grade 1. Adrenal
213 insufficiency resolved in two patients.

214 For symptomatic adrenal insufficiency, withhold TECENTRIQ and administer
215 methylprednisolone 1–2 mg/kg per day IV followed by oral prednisone 1–2 mg/kg per day or
216 equivalent once symptoms improve. Start steroid taper when symptoms improve to \leq Grade 1
217 and taper steroids over \geq 1 month. Resume treatment with TECENTRIQ if the event improves
218 to \leq Grade 1 within 12 weeks and corticosteroids have been reduced to the equivalent of \leq 10 mg
219 oral prednisone per day and the patient is stable on replacement therapy, if required [*see Dosage*
220 *and Administration (2.2) and Adverse Reactions (6.1)*].

221 ***Diabetes Mellitus***

222 New onset diabetes with ketoacidosis has occurred in patients receiving TECENTRIQ. Diabetes
223 mellitus without an alternative etiology occurred in one (0.2%) patient with urothelial carcinoma
224 and three (0.3%) patients with NSCLC.

225 Initiate treatment with insulin for type 1 diabetes mellitus. For \geq Grade 3 hyperglycemia (fasting
226 glucose $>$ 250 mg/dL), withhold TECENTRIQ. Resume treatment with TECENTRIQ when
227 metabolic control is achieved on insulin replacement therapy [*see Dosage and Administration*
228 *(2.2) and Adverse Reactions (6.1)*].

229 **5.5 Other Immune-Related Adverse Reactions**

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

234 ***Meningitis / Encephalitis***

235 Monitor patients for clinical signs and symptoms of meningitis or encephalitis. Permanently
236 discontinue TECENTRIQ for any grade of meningitis or encephalitis. Treat with IV steroids (1–
237 2 mg/kg/day methylprednisolone or equivalent) and convert to oral steroids (prednisone
238 60 mg/day or equivalent) once the patient has improved. When symptoms improve to \leq Grade 1,
239 taper steroids over \geq 1 month [*see Dosage and Administration (2.2) and Adverse Reactions*
240 *(6.1)*].

241 ***Motor and Sensory Neuropathy***

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

247 ***Pancreatitis***

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

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

258 **Myocarditis**

259 Monitor patients for signs and symptoms of myocarditis. Withhold TECENTRIQ for Grade 2
260 myocarditis. Permanently discontinue TECENTRIQ for Grade 3 or 4 myocarditis. Consider
261 initiation of treatment with systemic corticosteroids [*see Dosage and Administration (2.2)*].

262 **5.6 Infection**

263 Severe infections, including sepsis, herpes encephalitis, and mycobacterial infection leading to
264 retroperitoneal hemorrhage occurred in patients receiving TECENTRIQ. Monitor patients for
265 signs and symptoms of infection and treat with antibiotics for suspected or confirmed bacterial
266 infections. Withhold TECENTRIQ for \geq Grade 3 infection [*see Dosage and Administration*
267 *(2.2) and Adverse Reactions (6.1)*].

268 Across clinical trials, infections occurred in 38.4% (759/1978) of patients.

269 **Urothelial Carcinoma**

270 In 523 patients with urothelial carcinoma who received TECENTRIQ, infection occurred in 197
271 (37.7%) patients. Grade 3 or 4 infection occurred in sixty (11.5%) patients, while three patients
272 died due to infections. Urinary tract infections were the most common cause of Grade 3 or
273 higher infection, occurring in 37 (7.1%) patients.

274 **NSCLC**

275 In Study 3, a randomized trial in patients with NSCLC, infections were more common in patients
276 treated with TECENTRIQ (43%) compared with those treated with docetaxel (34%). Grade 3 or
277 4 infections occurred in 9.2% of patients treated with TECENTRIQ compared with 2.2% in
278 patients treated with docetaxel. Two patients (1.4%) treated with TECENTRIQ and three patients
279 (2.2%) treated with docetaxel died due to infection. Pneumonia was the most common cause of
280 Grade 3 or higher infection, occurring in 7.7% of patients treated with TECENTRIQ.

281 **5.7 Infusion-Related Reactions**

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

288 **5.8 Embryo-Fetal Toxicity**

289 Based on its mechanism of action, TECENTRIQ can cause fetal harm when administered to a
290 pregnant woman. Animal studies have demonstrated that inhibition of the PD-L1/PD-1 pathway
291 can lead to increased risk of immune-related rejection of the developing fetus resulting in fetal
292 death. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this
293 drug, advise the patient of the potential risk to a fetus. Advise females of reproductive potential
294 to use effective contraception during treatment with TECENTRIQ and for at least 5 months after
295 the last dose [*see Use in Specific Populations (8.1, 8.3)*].

296 **6 ADVERSE REACTIONS**

297 The following adverse reactions are discussed in greater detail in other sections of the label:

- 298 • Immune-Related Pneumonitis [*see Warnings and Precautions (5.1)*]
- 299 • Immune-Related Hepatitis [*see Warnings and Precautions (5.2)*]
- 300 • Immune-Related Colitis [*see Warnings and Precautions (5.3)*]
- 301 • Immune-Related Endocrinopathies [*see Warnings and Precautions (5.4)*]
- 302 • Other Immune-Related Adverse Reactions [*see Warnings and Precautions (5.5)*]
- 303 • Infection [*see Warnings and Precautions (5.6)*]
- 304 • Infusion-Related Reactions [*see Warnings and Precautions (5.7)*]

305 **6.1 Clinical Trials Experience**

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

309 **Urothelial Carcinoma**

310 **Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Carcinoma**

311 The safety of TECENTRIQ was evaluated in Study 4, a multicenter, open-label, single-arm trial
312 that included 119 patients with locally advanced or metastatic urothelial carcinoma who were
313 ineligible for cisplatin-containing chemotherapy and were either previously untreated or had
314 disease progression at least 12 months after neoadjuvant or adjuvant chemotherapy [*see Clinical*
315 *Studies (14.1)*]. Patients received 1200 mg of TECENTRIQ intravenously every 3 weeks until
316 either unacceptable toxicity or disease progression. The median duration of exposure was
317 15.0 weeks (range 0, 87 weeks).

318 The most common adverse reactions ($\geq 20\%$) were fatigue (52%), decreased appetite (24%),
319 diarrhea (24%), and nausea (22%). The most common Grade 3–4 adverse reactions ($\geq 2\%$) were
320 fatigue, urinary tract infection, anemia, diarrhea, blood creatinine increase, intestinal obstruction,
321 ALT increase, hyponatremia, decreased appetite, sepsis, back/neck pain, renal failure, and
322 hypotension.

323 Five patients (4.2%) who were treated with TECENTRIQ experienced one of the following
324 events which led to death: sepsis, cardiac arrest, myocardial infarction, respiratory failure, or
325 respiratory distress. One additional patient (0.8%) was experiencing herpetic
326 meningoencephalitis and disease progression at the time of death. TECENTRIQ was
327 discontinued for adverse reactions in 4.2% (5/119) of patients. The adverse reactions leading to
328 discontinuation were diarrhea/colitis (1.7%), fatigue (0.8%), hypersensitivity (0.8%), and
329 dyspnea (0.8%). Adverse reactions leading to interruption of TECENTRIQ occurred in 35% of
330 patients, the most common ($\geq 1\%$) were intestinal obstruction, fatigue, diarrhea, urinary tract
331 infection, infusion related reaction, cough, abdominal pain, peripheral edema, pyrexia,
332 respiratory tract infection, upper respiratory tract infection, creatinine increase, decreased
333 appetite, hyponatremia, back pain, pruritus, and venous thromboembolism. Serious adverse
334 reactions occurred in 37% of patients. The most frequent serious adverse reactions ($\geq 2\%$) were
335 diarrhea, intestinal obstruction, sepsis, acute kidney injury, and renal failure.

336 Immune-related adverse reactions requiring systemic corticosteroids or hormone replacement
337 therapy occurred in 19.3% (23/119) patients, including 12.6% (15/119) patients who required

338 systemic corticosteroid therapy and 6.7% (8/119) patients who required only hormone
339 replacement therapy.

340 Six patients (5.0%) received an oral prednisone dose equivalent to ≥ 40 mg daily for an immune-
341 mediated adverse reaction [see *Warnings and Precautions (5)*].

342 Table 1 summarizes the adverse reactions that occurred in $\geq 10\%$ of patients and Table 2
343 summarizes Grade 3–4 selected laboratory abnormalities that occurred in $\geq 1\%$ of patients
344 treated with TECENTRIQ in Study 4.

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

| Adverse Reaction | TECENTRIQ N = 119 | |
|---|----------------------|----------------|
| | 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 Disorders | | |
| Back/Neck pain | 18 | 3 |
| Arthralgia | 13 | 0 |
| Skin and Subcutaneous Tissue Disorders | | |
| Pruritus | 18 | 0.8 |
| Rash ^f | 17 | 0.8 |
| Infections | | |
| Urinary tract infection ^g | 17 | 5 |
| Respiratory, Thoracic, and Mediastinal 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

Table 2: Grade 3–4 Laboratory Abnormalities in Patients 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 |

350 Previously Treated Patients with Locally Advanced or Metastatic Urothelial Carcinoma

351 The safety of TECENTRIQ was evaluated in Study 1, a multicenter, open-label, single-arm trial
 352 that included 310 patients in a single arm trial with locally advanced or metastatic urothelial
 353 carcinoma who had disease progression during or following at least one platinum-containing
 354 chemotherapy regimen or who had disease progression within 12 months of treatment with a
 355 platinum-containing neoadjuvant or adjuvant chemotherapy regimen [see *Clinical Studies*
 356 (14.1)]. Patients received 1200 mg of TECENTRIQ intravenously every 3 weeks until
 357 unacceptable toxicity or either radiographic or clinical progression. The median duration of
 358 exposure was 12.3 weeks (range: 0.1, 46 weeks).

359 The most common adverse reactions ($\geq 20\%$) were fatigue (52%), decreased appetite (26%),
 360 nausea (25%), urinary tract infection (22%), pyrexia (21%), and constipation (21%). The most
 361 common Grade 3–4 adverse reactions ($\geq 2\%$) were urinary tract infection, anemia, fatigue,
 362 dehydration, intestinal obstruction, urinary obstruction, hematuria, dyspnea, acute kidney injury,
 363 abdominal pain, venous thromboembolism, sepsis, and pneumonia.

364 Three patients (1.0%) who were treated with TECENTRIQ experienced one of the following
 365 events which led to death: sepsis, pneumonitis, or intestinal obstruction. TECENTRIQ was
 366 discontinued for adverse reactions in 3.2% (10/310) of the 310 patients. Sepsis led to
 367 discontinuation in 0.6% (2/310) of patients. Adverse reactions leading to interruption of
 368 TECENTRIQ occurred in 27% of patients; the most common ($> 1\%$) were liver enzyme
 369 increase, urinary tract infection, diarrhea, fatigue, confusional state, urinary obstruction, pyrexia,
 370 dyspnea, venous thromboembolism, and pneumonitis. Serious adverse reactions occurred in
 371 45% of patients. The most frequent serious adverse reactions ($> 2\%$) were urinary tract
 372 infection, hematuria, acute kidney injury, intestinal obstruction, pyrexia, venous
 373 thromboembolism, urinary obstruction, pneumonia, dyspnea, abdominal pain, sepsis, and
 374 confusional state.

375 Immune-related adverse reactions requiring systemic corticosteroids or hormone replacement
 376 therapy occurred in 11.0% (34/310) patients, including 8.4% (26/310) patients who required
 377 systemic corticosteroid therapy and 2.6% (8/310) patients who required only hormone
 378 replacement therapy.

379 Eighteen patients (5.8%) received an oral prednisone dose equivalent to ≥ 40 mg daily for an
 380 immune-mediated adverse reaction [see *Warnings and Precautions* (5)].

381 Table 3 summarizes the adverse reactions that occurred in $\geq 10\%$ of patients while Table 4
 382 summarizes Grade 3–4 selected laboratory abnormalities that occurred in $\geq 1\%$ of patients
 383 treated with TECENTRIQ in Study 1.

384 **Table 3: All Grade Adverse Reactions in $\geq 10\%$ of Patients with Urothelial**
 385 **Carcinoma in Study 1**

| Adverse Reaction | TECENTRIQ N=310 | |
|---|--------------------|----------------|
| | 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 Disorders | | |
| Back/Neck pain | 15 | 2 |
| Arthralgia | 14 | 1 |
| Renal and urinary disorders | | |
| Hematuria | 14 | 3 |
| Respiratory, Thoracic, and Mediastinal Disorders | | |
| Dyspnea | 16 | 4 |
| Cough | 14 | 0.3 |
| Skin and Subcutaneous Tissue Disorders | | |
| Rash | 15 | 0.3 |
| Pruritus | 13 | 0.3 |

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

388 **NSCLC**

389 The safety of TECENTRIQ was evaluated in Study 3, a multicenter, international, randomized,
 390 open-label trial in patients with metastatic NSCLC who progressed during or following a
 391 platinum-containing regimen, regardless of PD-L1 expression [see *Clinical Studies*
 392 (14.2)]. Patients received 1200 mg of TECENTRIQ (n=142) administered intravenously every 3
 393 weeks until unacceptable toxicity or either radiographic or clinical progression or docetaxel
 394 (n=135) administered intravenously at 75 mg/m² every 3 weeks until unacceptable toxicity or
 395 disease progression. The median duration of exposure was 3.7 months (range: 0–19 months) in
 396 TECENTRIQ-treated patients and 2.1 months (range: 0–17 months) in docetaxel-treated patients.

397 The most common adverse reactions ($\geq 20\%$) in patients receiving TECENTRIQ were fatigue
 398 (46%), decreased appetite (35%), dyspnea (32%), cough (30%), nausea (22%), musculoskeletal
 399 pain (22%), and constipation (20%). The most common Grade 3-4 adverse reactions ($\geq 2\%$) were
 400 dyspnea, pneumonia, hypoxia, hyponatremia, fatigue, anemia, musculoskeletal pain, AST
 401 increase, ALT increase, dysphagia, and arthralgia.

402 Nine patients (6.3%) who were treated with TECENTRIQ experienced either pulmonary
 403 embolism (2), pneumonia (2), pneumothorax, ulcer hemorrhage, cachexia secondary to
 404 dysphagia, myocardial infarction, or large intestinal perforation which led to death.
 405 TECENTRIQ was discontinued due to adverse reactions in 4% (6/142) of patients. Adverse
 406 reactions leading to interruption of TECENTRIQ occurred in 24% of patients; the most common
 407 ($>1\%$) were pneumonia, liver function test abnormality, upper respiratory tract infection,
 408 pneumonitis, acute kidney injury, hypoxia, hypothyroidism, dyspnea, anemia, and fatigue.
 409 Serious adverse reactions occurred in 37% of patients. The most frequent serious adverse
 410 reactions ($> 2\%$) were pneumonia, dyspnea, pleural effusion, pyrexia, and venous
 411 thromboembolism.

412 Table 5 summarizes adverse reactions that occurred in at least 10% of TECENTRIQ-treated
 413 patients and at a higher incidence than in the docetaxel arm. Table 6 summarizes selected
 414 laboratory abnormalities worsening from baseline that occurred in $\geq 10\%$ of TECENTRIQ-
 415 treated patients and at a higher incidence than in the docetaxel arm.

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

| Adverse Reaction | TECENTRIQ (n=142) | | Docetaxel (n=135) | |
|--|----------------------|-----------|----------------------|-----------|
| | 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 disorders | | | | |
| Decreased appetite | 35 | 1 | 22 | 0 |
| Musculoskeletal and connective tissue disorders | | | | |
| Arthralgia | 16 | 2 | 9 | 2 |
| Back pain | 14 | 1 | 9 | 1 |
| Psychiatric Disorders | | | | |
| Insomnia | 14 | 0 | 8 | 2 |
| Respiratory, thoracic and mediastinal disorders | | | | |
| Dyspnea | 32 | 7 | 24 | 2 |
| Cough | 30 | 1 | 25 | 0 |

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

| Test | Percentage of Patients with Worsening Laboratory Test from Baseline | | | |
|--------------------------------------|--|----------------|-----------------|----------------|
| | TECENTRIQ | | Docetaxel | |
| | 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 |

423 6.2 Immunogenicity

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

429 tested positive for treatment-emergent ATAs at one or more post-dose time points. In Study 1,
430 Study 3, and Study 4, the presence of ATAs did not appear to have a clinically significant impact
431 on pharmacokinetics, safety or efficacy.

432 Immunogenicity assay results are highly dependent on several factors, including assay sensitivity
433 and specificity, assay methodology, sample handling, timing of sample collection, concomitant
434 medications and underlying disease. For these reasons, comparison of incidence of ATAs to
435 TECENTRIQ with the incidence of antibodies to other products may be misleading.

436 **8 USE IN SPECIFIC POPULATIONS**

437 **8.1 Pregnancy**

438 **Risk Summary**

439 Based on its mechanism of action, TECENTRIQ can cause fetal harm when administered to a
440 pregnant woman [see *Clinical Pharmacology (12.1)*]. There are no available data on the use of
441 TECENTRIQ in pregnant women. Animal studies have demonstrated that inhibition of the
442 PD-L1/PD-1 pathway can lead to increased risk of immune-related rejection of the developing
443 fetus resulting in fetal death [see *Data*]. If this drug is used during pregnancy, or if the patient
444 becomes pregnant while taking this drug, advise the patient of the potential risk to a fetus.

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

447 **Data**

448 ***Animal Data***

449 Animal reproduction studies have not been conducted with TECENTRIQ to evaluate its effect on
450 reproduction and fetal development. A literature-based assessment of the effects on reproduction
451 demonstrated that a central function of the PD-L1/PD-1 pathway is to preserve pregnancy by
452 maintaining maternal immune tolerance to a fetus. Blockage of PD-L1 signaling has been shown
453 in murine models of pregnancy to disrupt tolerance to a fetus and to result in an increase in fetal
454 loss; therefore, potential risks of administering TECENTRIQ during pregnancy include increased
455 rates of abortion or stillbirth. As reported in the literature, there were no malformations related to
456 the blockade of PD-L1/PD-1 signaling in the offspring of these animals; however, immune-
457 mediated disorders occurred in PD-1 and PD-L1 knockout mice. Based on its mechanism of
458 action, fetal exposure to atezolizumab may increase the risk of developing immune-mediated
459 disorders or altering the normal immune response.

460 **8.2 Lactation**

461 **Risk Summary**

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

467 **8.3 Females and Males of Reproductive Potential**

468 **Contraception**

469 ***Females***

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

472 potential to use effective contraception during treatment with TECENTRIQ and for at least
473 5 months following the last dose.

474 **Infertility**

475 ***Females***

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

478 **8.4 Pediatric Use**

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

480 **8.5 Geriatric Use**

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

485 Of the 119 cisplatin-ineligible patients with urothelial carcinoma treated with TECENTRIQ in
486 Study 4, 83% were 65 years or older and 41% were 75 years or older. The overall response rate
487 in patients 65 years or older was 23% (23/99) and in patients 75 years or older was 29% (14/49).
488 Grade 3 or 4 adverse reactions occurred in 53% (52/99) of patients 65 years or older and 51%
489 (25/49) of patients 75 years or older. No overall differences in safety or efficacy were observed
490 between patients \geq 75 years of age and younger patients.

491 **8.6 Renal Impairment**

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

494 **8.7 Hepatic Impairment**

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

498 **10 OVERDOSAGE**

499 There is no information on overdose with TECENTRIQ.

500 **11 DESCRIPTION**

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

504 TECENTRIQ injection for intravenous infusion is a sterile, preservative-free, colorless to
505 slightly yellow solution in single-dose vials. Each mL of TECENTRIQ contains 60 mg of
506 atezolizumab and is formulated in glacial acetic acid (16.5 mg), L-histidine (62 mg), sucrose
507 (821.6 mg), polysorbate 20 (8 mg), pH 5.8.

508 **12 CLINICAL PHARMACOLOGY**

509 **12.1 Mechanism of Action**

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

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

519 **12.3 Pharmacokinetics**

520 Patients' exposures to atezolizumab increased dose proportionally over the dose range of
521 1 mg/kg to 20 mg/kg, including the fixed dose 1200 mg administered every 3 weeks. Based on a
522 population analysis that included 472 patients in the dose range, the typical population clearance
523 was 0.20 L/day, volume of distribution at steady state was 6.9 L, and the terminal half-life was
524 27 days. The population PK analysis suggests steady state is obtained after 6 to 9 weeks (2 to 3
525 cycles) of repeated dosing. The systemic accumulation in area under the curve (AUC), maximum
526 concentration (C_{max}) and trough concentration (C_{min}) was 1.91, 1.46 and 2.75-fold,
527 respectively. In a post hoc analysis, atezolizumab clearance was found to decrease over time,
528 with a mean maximal reduction (% coefficient of variation [CV%]) from baseline value of
529 approximately 17.1% (40.6%). However, the decrease in CL was not considered clinically
530 relevant.

531 *Specific Populations:* Age (21–89 years), body weight, gender, positive anti-therapeutic
532 antibody (ATA) status, albumin levels, tumor burden, region or race, mild or moderate renal
533 impairment (estimated glomerular filtration rate (eGFR) 30 to 89 mL/min/1.73 m²), mild hepatic
534 impairment (bilirubin ≤ ULN and AST > ULN or bilirubin < 1.0 to 1.5 × ULN and any AST),
535 level of PD-L1 expression, or ECOG status had no clinically significant effect on the systemic
536 exposure of atezolizumab.

537 The effect of severe renal impairment (eGFR 15 to 29 mL/min/1.73 m²) or moderate or severe
538 hepatic impairment (bilirubin > ULN and AST > ULN or bilirubin ≥ 1.0 to 1.5 × ULN and any
539 AST) on the pharmacokinetics of atezolizumab is unknown.

540 *Drug Interaction Studies*

541 The drug interaction potential of atezolizumab is unknown.

542 **13 NONCLINICAL TOXICOLOGY**

543 **13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility**

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

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

553 **13.2 Animal Toxicology and/or Pharmacology**

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

560 **14 CLINICAL STUDIES**

561 **14.1 Urothelial Carcinoma**

562 **Cisplatin-Ineligible Patients with Locally Advanced or Metastatic Urothelial Carcinoma**

563 The efficacy of TECENTRIQ was investigated in Study 4, a multicenter, open-label, single-arm
564 trial that included 119 patients with locally advanced or metastatic urothelial carcinoma who
565 were ineligible for cisplatin-containing chemotherapy and were either previously untreated or
566 had disease progression at least 12 months after neoadjuvant or adjuvant chemotherapy. Patients
567 were considered cisplatin-ineligible if they met any one of the following criteria at study entry:
568 impaired renal function (creatinine clearance of > 30 but < 60 mL/min), ECOG score of 2,
569 hearing loss of ≥ 25 dB at two contiguous frequencies, or \geq Grade 2 peripheral neuropathy. This
570 study excluded patients who had: a history of autoimmune disease; active or corticosteroid-
571 dependent brain metastases; administration of a live, attenuated vaccine within 28 days prior to
572 enrollment; or administration of systemic immunostimulatory agents within 6 weeks or systemic
573 immunosuppressive medications within 2 weeks prior to enrollment. Patients received an
574 intravenous infusion of 1200 mg of TECENTRIQ every 3 weeks until unacceptable toxicity or
575 disease progression. Tumor response assessments were conducted every 9 weeks for the first
576 54 weeks and every 12 weeks thereafter. Major efficacy outcome measures included confirmed
577 objective response rate (ORR) as assessed by independent review facility (IRF) using Response
578 Evaluation Criteria in Solid Tumors (RECIST v1.1), duration of response (DoR) and overall
579 survival (OS).

580 In this study, the median age was 73 years, 81% were male, and 91% were Caucasian. Thirty-
581 five percent of patients had non-bladder urothelial carcinoma and 66% had visceral metastases.
582 Eighty percent of patients had an ECOG score of 0-1. Reasons for patients' ineligibility for
583 cisplatin-containing chemotherapy were: 70% had impaired renal function, 20% had an ECOG
584 score of 2, 14% had a hearing loss of ≥ 25 db, and 6% had \geq Grade 2 peripheral neuropathy at
585 baseline. Twenty percent of patients had disease progression following prior platinum-
586 containing neoadjuvant or adjuvant chemotherapy.

587 Tumor specimens were evaluated prospectively using the Ventana PD-L1 (SP142) Assay at a
588 central laboratory, and the results were used to define subgroups for pre-specified analyses. Of
589 the 119 patients, 27% were classified as having PD-L1 expression of $\geq 5\%$ (defined as PD-L1
590 stained tumor-infiltrating immune cells [IC] covering $\geq 5\%$ of the tumor area). The remaining
591 73% of patients were classified as having PD-L1 expression of $< 5\%$ (PD-L1 stained tumor-
592 infiltrating IC covering $< 5\%$ of the tumor area).

593 Confirmed ORR in all patients and the two PD-L1 subgroups are summarized in Table 7. The
594 median follow-up time for this study was 14.4 months. In 24 patients with disease progression
595 following neoadjuvant or adjuvant therapy, the ORR was 33.0% (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 ¹ (N=87) | PD-L1 Expression of ≥ 5% in ICs ¹ (N=32) |
| Number of IRF-assessed Confirmed Responders | 28 | 19 | 9 |
| ORR % (95% CI) | 23.5% (16.2, 32.2) | 21.8% (13.7, 32.0) | 28.1% (13.8, 46.8) |
| Complete Response (CR) (%) | 6.7% | 6.9% | 6.3% |
| Partial Response (PR) (%) | 16.8% | 14.9% | 21.9% |
| Median DoR, months (range) | NR (3.7, 16.6+) | NR (3.7, 16.6+) | NR (8.1, 15.6+) |
| NR = Not reached + Denotes a censored value ¹ PD-L1 expression in tumor-infiltrating immune cells (ICs) | | | |

597 **Previously Treated Patients with Locally Advanced or Metastatic Urothelial Carcinoma**

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

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

620 Tumor specimens were evaluated prospectively using the VENTANA PD-L1 (SP142) Assay at a
621 central laboratory and the results were used to define subgroups for pre-specified analyses. Of
622 the 310 patients, 32% were classified as having PD-L1 expression of ≥ 5% (defined as PD-L1
623 stained tumor-infiltrating immune cells [IC] covering ≥ 5% of the tumor area). The remaining
624 68% of patients were classified as having PD-L1 expression of < 5% (PD-L1 stained tumor-
625 infiltrating IC covering < 5% of the tumor area).

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

629

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 ≥ 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-infiltrating immune cells (IC) | | | |

630 **14.2 Metastatic Non-Small Cell Lung Cancer**

631 **Previously Treated Patients with Metastatic NSCLC**

632 The efficacy of TECENTRIQ was investigated in two multicenter, international, randomized,
 633 open-label trials in patients with metastatic NSCLC who progressed during or following a
 634 platinum-containing regimen. Study 2 was a trial in 1225 patients with the primary analysis
 635 population consisting of the first 850 randomized patients and Study 3 was a trial in 287 patients.
 636 In both studies, eligible patients were stratified by PD-L1 expression status in tumor-infiltrating
 637 immune cells (IC), by the number of prior chemotherapy regimens, and by histology. Patients
 638 were randomized (1:1) to receive either TECENTRIQ administered intravenously at 1200 mg
 639 every 3 weeks until unacceptable toxicity or either radiographic or clinical progression or
 640 docetaxel administered intravenously at 75 mg/m² every 3 weeks until unacceptable toxicity or
 641 disease progression. These studies excluded patients who had: a history of autoimmune disease,
 642 had active or corticosteroid-dependent brain metastases, administration of a live, attenuated
 643 vaccine within 28 days prior to enrollment, administration of systemic immunostimulatory
 644 agents within 4 weeks or systemic immunosuppressive medications within 2 weeks prior to
 645 enrollment. Tumor assessments were conducted every 6 weeks for the first 36 weeks, and every
 646 9 weeks thereafter. In Study 2, tumor specimens were evaluated prospectively for PD-L1
 647 expression on tumor cells (TC) and IC using the VENTANA PD-L1 (SP142) Assay and the
 648 results were used to define the PD-L1 expression subgroups for the analyses described below.

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

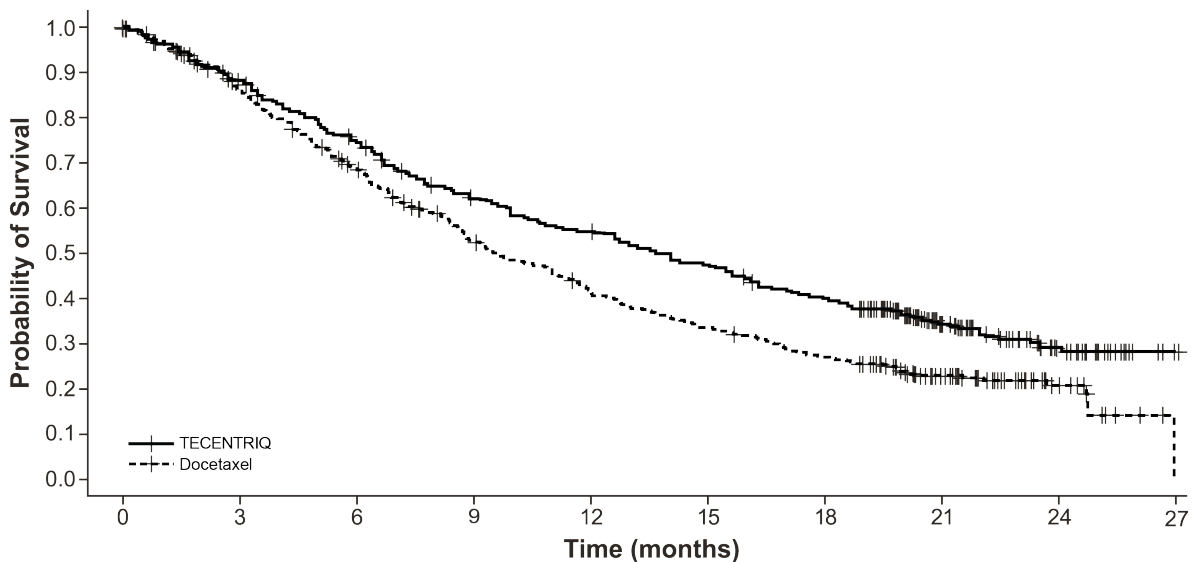
655 the median age was 62 years (range: 36 to 84), and 59% of patients were male. The majority of
 656 patients were white (79%). Approximately two-thirds of patients had non-squamous disease
 657 (66%), 7% had known EGFR mutation, 1% had ALK rearrangements, and most patients were
 658 current or previous smokers (80%). Baseline ECOG performance status was 0 (33%) or 1 (67%).
 659 Approximately two-thirds of patients received only one prior platinum-based therapeutic
 660 regimen.

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

666 **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 (95% CI) | 13.8 (11.8, 15.7) | 9.6 (8.6, 11.2) |
| Hazard ratio ¹ (95% CI) | 0.74 (0.63, 0.87) | |
| p-value ² | 0.0004 | |
| ¹ Stratified by PD-L1 expression in tumor infiltrating immune cells, the number of prior chemotherapy regimens, and histology | | |
| ² Based on the stratified log-rank test | | |
| CI=confidence interval | | |

667 **Figure 1: Kaplan-Meier Plot of Overall Survival in the Primary Analysis Population in**
 668 **Study 2**



669

| No. Patients at Risk | 425 | 407 | 382 | 363 | 342 | 326 | 305 | 279 | 260 | 248 | 234 | 223 | 218 | 205 | 198 | 188 | 175 | 163 | 157 | 141 | 116 | 74 | 54 | 41 | 28 | 15 | 4 | 1 |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|---|---|
| TECENTRIQ | 425 | 407 | 382 | 363 | 342 | 326 | 305 | 279 | 260 | 248 | 234 | 223 | 218 | 205 | 198 | 188 | 175 | 163 | 157 | 141 | 116 | 74 | 54 | 41 | 28 | 15 | 4 | 1 |
| Docetaxel | 425 | 390 | 365 | 336 | 311 | 286 | 263 | 236 | 219 | 195 | 179 | 168 | 151 | 140 | 132 | 123 | 116 | 104 | 98 | 90 | 70 | 51 | 37 | 28 | 16 | 6 | 3 | |

670 Tumor specimens were evaluated prospectively using the VENTANA PD-L1 (SP142) Assay at a
 671 central laboratory and the results were used to define the PD-L1 expression subgroups for pre-
 672 specified analyses. Of the 850 patients, 16% were classified as having high PD-L1 expression,
 673 defined as having PD-L1 expression on $\geq 50\%$ of TC or $\geq 10\%$ of IC. In an exploratory efficacy

674 subgroup analysis of OS based on PD-L1 expression, the hazard ratio was 0.41 (95% CI: 0.27,
 675 0.64) in the high PD-L1 expression subgroup and 0.82 (95% CI: 0.68, 0.98) in patients who did
 676 not have high PD-L1 expression.

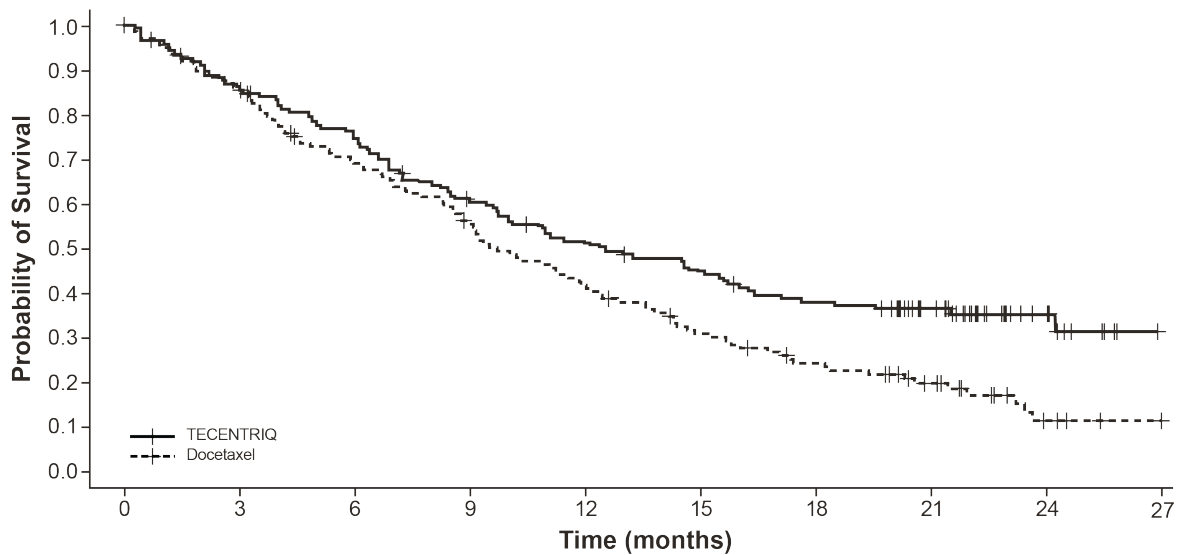
677 Results of an updated survival analysis in Study 3 with a median follow-up of 22 months are
 678 provided for all randomized patients (Table 10 and Figure 2).

679 **Table 10: Efficacy Results from Study 3**

| | TECENTRIQ (n=144) | Docetaxel (n=143) |
|--|------------------------------|------------------------------|
| Overall Survival | | |
| Deaths (%) | 90 (63%) | 110 (77%) |
| Median, months (95% CI) | 12.6 (9.7, 16.0) | 9.7 (8.6, 12.0) |
| Hazard ratio ¹ (95% CI) | 0.69 (0.52, 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 Response² | n=22 | n=21 |
| Median (months) (95% CI) | 18.6 (11.6, NE) | 7.2 (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

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



| No. of Patients at Risk | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | | | | | | | | | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| TECENTRIQ | 144 | 139 | 131 | 123 | 117 | 110 | 106 | 95 | 90 | 84 | 78 | 73 | 70 | 67 | 64 | 60 | 54 | 52 | 50 | 49 | 46 | 34 | 24 | 14 | 11 | 5 | 1 |
| Docetaxel | 143 | 130 | 123 | 118 | 106 | 97 | 92 | 87 | 82 | 73 | 65 | 61 | 55 | 49 | 46 | 39 | 36 | 33 | 29 | 27 | 24 | 18 | 12 | 9 | 5 | 2 | 1 |

681 **16 HOW SUPPLIED/STORAGE AND HANDLING**

682 TECENTRIQ injection is a sterile, preservative-free, and colorless to slightly yellow solution for
 683 intravenous infusion supplied as a carton containing one 1200 mg/20 mL single-dose vial (NDC
 684 50242-917-01).
 685

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

688 **17 PATIENT COUNSELING INFORMATION**

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

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

- 692 • Pneumonitis: Advise patients to contact their healthcare provider immediately for any
693 new or worsening cough, chest pain, or shortness of breath [*see Warnings and*
694 *Precautions (5.1)*].
- 695 • Hepatitis: Advise patients to contact their healthcare provider immediately for jaundice,
696 severe nausea or vomiting, pain on the right side of abdomen, lethargy, or easy bruising
697 or bleeding [*see Warnings and Precautions (5.2)*].
- 698 • Colitis: Advise patients to contact their healthcare provider immediately for diarrhea or
699 severe abdominal pain [*see Warnings and Precautions (5.3)*].
- 700 • Endocrinopathies: Advise patients to contact their healthcare provider immediately for
701 signs or symptoms of hypophysitis, hyperthyroidism, hypothyroidism, adrenal
702 insufficiency, or type 1 diabetes mellitus, including diabetic ketoacidosis [*see Warnings*
703 *and Precautions (5.4)*].
- 704 • Meningoencephalitis, Myasthenic syndrome/Myasthenia Gravis, and Guillain-Barré
705 syndrome: Advise patients to contact their healthcare provider immediately for signs or
706 symptoms of meningitis, myasthenic syndrome/myasthenia gravis, or Guillain-Barré
707 syndrome [*see Warnings and Precautions (5.5)*].
- 708 • Ocular Inflammatory Toxicity: Advise patients to contact their healthcare provider
709 immediately for signs or symptoms of ocular inflammatory toxicity [*see Warnings and*
710 *Precautions (5.5)*].
- 711 • Pancreatitis: Advise patients to contact their healthcare provider immediately for signs
712 and symptoms of pancreatitis [*see Warnings and Precautions (5.5)*].
- 713 • Myocarditis: Advise patients to contact their healthcare provider immediately for signs
714 and symptoms of myocarditis [*see Warnings and Precautions (5.5)*].
- 715 • Infection: Advise patients to contact their healthcare provider immediately for signs or
716 symptoms of infection [*see Warnings and Precautions (5.6)*].
- 717 • Infusion-Related Reactions: Advise patients to contact their healthcare provider
718 immediately for signs or symptoms of infusion-related reactions [*see Warnings and*
719 *Precautions (5.7)*].
- 720 • Rash: Advise patients to contact their healthcare provider immediately for signs or
721 symptoms of rash [*see Dosage and Administration (2.2)*].

722 Embryo-Fetal Toxicity

723 Advise female patients that TECENTRIQ can cause fetal harm. Instruct females of
724 reproductive potential to use effective contraception during treatment and for at least
725 5 months after the last dose of TECENTRIQ [*see Use in Specific Populations (8.1, 8.3)*].

726 Lactation

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

TECENTRIQ[®] [atezolizumab]

Manufactured by:

Genentech, Inc.

A Member of the Roche Group

1 DNA Way

South San Francisco, CA 94080-4990

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Inc.

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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
- chest pain

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

- yellowing of your skin or the whites of your eyes
- dark urine (tea colored)
- severe nausea or vomiting
- bleeding or bruising more easily than normal
- pain on the right side of your stomach area (abdomen)
- feeling less hungry than usual
- 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:

- headaches that will not go away or unusual headaches
- feeling cold
- extreme tiredness
- constipation
- weight gain or weight loss
- your voice gets deeper
- dizziness or fainting
- urinating more often than usual
- feeling more hungry or thirsty than usual
- nausea or vomiting
- hair loss
- stomach area (abdomen) pain
- 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
- changes in mood or behavior
- numbness or tingling in hands or feet
- extreme sensitivity to light
- fever
- neck stiffness
- confusion

Inflammation of the eyes. Signs and symptoms may include:

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

Heart problems. Signs and symptoms may include:

- chest pain
- decreased exercise tolerance
- shortness of breath
- ankle swelling
- irregular heartbeat

Severe infections. Signs and symptoms of infection may include:

- fever
- flu-like symptoms
- cough
- pain when urinating
- frequent urination

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

- chills or shaking
- dizziness
- itching or rash
- fever
- flushing
- feeling like passing out
- shortness of breath or wheezing
- back or neck pain
- 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.

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:**

- has spread or cannot be removed by surgery (advanced urothelial carcinoma), **and**
- 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:**

- has spread or grown, **and**
- 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
- urinary tract infection
- diarrhea
- fever

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

- feeling tired
- decreased appetite
- shortness of breath
- cough
- nausea
- muscle or bone pain
- constipation

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.

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.

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

U.S. License No. 1048 TECENTRIQ is a registered trademark of Genentech, Inc.

For more information, call 1-844-832-3687 or go to www.TECENTRIQ.com.

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

Revised: 3/2018