

# ZEPZELCA- lurbinectedin injection, powder, lyophilized, for solution

## Jazz Pharmaceuticals, Inc.

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### HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**ZEPZELCA® (lurbinectedin) for injection, for intravenous use**  
**Initial U.S. Approval: 2020**

### RECENT MAJOR CHANGES

Dosage and Administration (2.3) 07/2023

### INDICATIONS AND USAGE

ZEPZELCA is an alkylating drug indicated for the treatment of adult patients with metastatic small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy. (1)

This indication is approved under accelerated approval based on overall response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s). (1)

### DOSAGE AND ADMINISTRATION

- Recommended dosage: 3.2 mg/m<sup>2</sup> every 21 days. (2.1)
- Administer ZEPZELCA as an intravenous infusion over 60 minutes. (2.1)
- Consider premedication with corticosteroids and serotonin antagonists. (2.3)

### DOSAGE FORMS AND STRENGTHS

For injection: 4 mg lyophilized powder in a single-dose vial. (3)

### CONTRAINDICATIONS

None. (4)

### WARNINGS AND PRECAUTIONS

- **Myelosuppression:** Monitor blood counts prior to each administration. Initiate treatment with ZEPZELCA only if baseline neutrophil count is  $\geq 1,500$  cells/mm<sup>3</sup> and platelet count is  $\geq 100,000$ /mm<sup>3</sup>. Withhold, reduce the dose, or permanently discontinue ZEPZELCA based on severity. (2.2, 5.1)
- **Hepatotoxicity:** Monitor liver function tests prior to initiating ZEPZELCA, periodically during treatment and as clinically indicated. Withhold, reduce the dose, or permanently discontinue ZEPZELCA based on severity. (2.2, 5.2)
- **Extravasation Resulting in Tissue Necrosis:** Consider use of a central venous catheter to reduce the risk of extravasation. Monitor patients for signs and symptoms of extravasation during the ZEPZELCA infusion. If extravasation occurs, immediately discontinue the infusion, remove the infusion catheter, and monitor for signs and symptoms of tissue necrosis. (5.3)
- **Rhabdomyolysis:** Monitor creatine phosphokinase (CPK) prior to initiating ZEPZELCA and periodically during treatment as clinically indicated. Withhold, reduce the dose, or permanently discontinue ZEPZELCA based on severity. (5.4)
- **Embryo-Fetal Toxicity:** Can cause fetal harm. Advise females and males of reproductive potential of the potential risk to a fetus and to use an effective method of contraception. (5.5)

### ADVERSE REACTIONS

The most common adverse reactions, including laboratory abnormalities, ( $\geq 20\%$ ) are leukopenia, lymphopenia, fatigue, anemia, neutropenia, increased creatinine, increased alanine aminotransferase, increased glucose, thrombocytopenia, nausea, decreased appetite, musculoskeletal pain, decreased albumin, constipation, dyspnea, decreased sodium, increased aspartate aminotransferase, vomiting, cough, decreased magnesium and diarrhea. (6.1)

**To report SUSPECTED ADVERSE REACTIONS, contact Jazz Pharmaceuticals, Inc. at 1-800-520-5568 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### DRUG INTERACTIONS

- **Effect of Other Drugs on ZEPZELCA:** Avoid coadministration. (7.1)

### USE IN SPECIFIC POPULATIONS

Lactation: Advise not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 7/2023

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## FULL PRESCRIBING INFORMATION

### 1 INDICATIONS AND USAGE

ZEPZELCA is indicated for the treatment of adult patients with metastatic small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy.

This indication is approved under accelerated approval based on overall response rate and duration of response [see *Clinical Studies (14)*]. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

### 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Dosage

The recommended dosage of ZEPZELCA is 3.2 mg/m<sup>2</sup> by intravenous infusion over 60 minutes every 21 days until disease progression or unacceptable toxicity.

Initiate treatment with ZEPZELCA only if absolute neutrophil count (ANC) is at least 1,500 cells/mm<sup>3</sup> and platelet count is at least 100,000/mm<sup>3</sup>.

#### 2.2 Dosage Modifications for Adverse Reactions

The recommended dose reductions for adverse reactions are listed in Table 1. Permanently discontinue ZEPZELCA in patients who are unable to tolerate 2 mg/m<sup>2</sup> or require a dose delay greater than two weeks.

**Table 1: Dose Reduction for ZEPZELCA for Adverse Reactions**

Dose Reduction	Total Dose
First	2.6 mg/m <sup>2</sup> every 21 days
Second	2 mg/m <sup>2</sup> every 21 days

Dosage modifications for ZEPZELCA for adverse reactions are presented in Table 2.

**Table 2: Dosage Modifications for ZEPZELCA for Adverse Reactions**

Adverse Reaction	Severity <sup>a</sup>	Dosage Modification
Neutropenia <sup>b</sup> [see <i>Warnings and Precautions (5.1)</i> ]	Grade 4 or Any grade febrile neutropenia	<ul style="list-style-type: none"><li>Withhold ZEPZELCA until Grade ≤ 1</li><li>Resume ZEPZELCA at a reduced dose</li></ul>
Thrombocytopenia [see <i>Warnings and Precautions (5.1)</i> ]	Grade 3 with bleeding or Grade 4	<ul style="list-style-type: none"><li>Withhold ZEPZELCA until platelet ≥ 100,000/mm<sup>3</sup></li></ul>

		<ul style="list-style-type: none"> <li>Resume ZEPZELCA at reduced dose</li> </ul>
Hepatotoxicity [see Warnings and Precautions (5.2)]	Grade 2	<ul style="list-style-type: none"> <li>Withhold ZEPZELCA until Grade <math>\leq 1</math></li> <li>Resume ZEPZELCA at same dose</li> </ul>
	Grade $\geq 3$	<ul style="list-style-type: none"> <li>Withhold ZEPZELCA until Grade <math>\leq 1</math></li> <li>Resume ZEPZELCA at reduced dose or permanently discontinue</li> </ul>
Rhabdomyolysis [see Warnings and Precautions (5.4)]	Grade 2	<ul style="list-style-type: none"> <li>Withhold ZEPZELCA until Grade <math>\leq 1</math></li> <li>Resume ZEPZELCA at same dose</li> </ul>
	Grade $\geq 3$	<ul style="list-style-type: none"> <li>Permanently discontinue ZEPZELCA.</li> </ul>
Other Adverse Reactions [see Postmarketing (6.2)]	Grade 2	<ul style="list-style-type: none"> <li>Withhold ZEPZELCA until Grade <math>\leq 1</math></li> <li>Resume ZEPZELCA at same dose</li> </ul>
	Grade $\geq 3$	<ul style="list-style-type: none"> <li>Withhold ZEPZELCA until Grade <math>\leq 1</math></li> <li>Resume ZEPZELCA at reduced dose or permanently discontinue</li> </ul>

- a National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.0
- b Patients with isolated Grade 4 neutropenia (neutrophil count less than 500 cells/mm<sup>3</sup>) may receive G-CSF prophylaxis rather than undergo lurbinedin dose reduction.

### **2.3 Dosage Modifications for Use with Strong CYP3A Inhibitors**

Avoid coadministration of ZEPZELCA with strong CYP3A inhibitors. If coadministration of ZEPZELCA with a strong CYP3A inhibitor cannot be avoided, reduce the dose of ZEPZELCA by 50% [see Drug Interactions (7.1), Clinical Pharmacology (12.3)]. After

discontinuation of a strong CYP3A inhibitor for 5 half-lives of the inhibitor, increase the ZEPZELCA dose to the dose used before starting the inhibitor.

## 2.4 Premedication

Consider administering the following pre-infusion medications for antiemetic prophylaxis [see *Adverse Reactions (6.1)*]:

- Corticosteroids (dexamethasone 8 mg intravenously or equivalent)
- Serotonin antagonists (ondansetron 8 mg intravenously or equivalent)

## 2.5 Preparation, Administration and Storage

ZEPZELCA is a hazardous drug. Follow applicable special handling and disposal procedures<sup>1</sup>.

### Preparation

- Inject 8 mL of Sterile Water for Injection USP into the vial, yielding a solution containing 0.5 mg/mL lurbinectedin. Shake the vial until complete dissolution.
- Visually inspect the solution for particulate matter and discoloration. The reconstituted solution is a clear, colorless or slightly yellowish solution, essentially free of visible particles.
- Calculate the required volume of reconstituted solution as follows:

$$\text{Volume (mL)} = \frac{\text{Body Surface Area (m}^2\text{)} \times \text{Individual Dose (mg/m}^2\text{)}}{0.5 \text{ mg/mL}}$$

- For administration through a central venous line, withdraw the appropriate amount of reconstituted solution from the vial and add to an infusion container containing at least 100 mL of diluent (0.9% Sodium Chloride Injection USP or 5% Dextrose Injection USP).
- For administration through a peripheral venous line, withdraw the appropriate amount of reconstituted solution from the vial and add to an infusion container containing at least 250 mL of diluent (0.9% Sodium Chloride Injection USP or 5% Dextrose Injection USP).

### Administration

- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit. If particulate matter is observed, do not administer.
- ZEPZELCA can be administered with or without an in-line filter. If infusion lines containing in-line filters are utilized for administration of ZEPZELCA, polyethersulfone (PES) in-line filters with pore sizes of 0.22 micron are recommended.
  - o Do not use in-line nylon membrane filters when the reconstituted ZEPZELCA solution is diluted using 0.9% Sodium Chloride Injection, USP. Adsorption of

ZEPZELCA to the Nylon membrane filters has been observed when 0.9% Sodium Chloride Injection, USP is used as the diluent.

- Compatibility with other intravenous administration materials and the diluted ZEPZELCA solution has been demonstrated in the following materials:
  - Polyolefin containers (polyethylene, polypropylene and mixtures).
  - Polyvinyl Chloride (PVC) (non-DEHP-containing), polyurethane and polyolefin infusion sets (polyethylene, polypropylene and polybutadiene).
  - Implantable venous access systems with titanium and plastic resin ports and with polyurethane or silicone intravenous catheters.
- Do not co-administer ZEPZELCA and other intravenous drugs concurrently within the same intravenous line.

### Storage of Infusion Solution

- If not used immediately after reconstitution or dilution, the ZEPZELCA solution can be stored prior to administration for up to 24 hours following reconstitution, including infusion time, at either room temperature/ ambient light or under refrigeration at 2°C-8°C (36°F-46°F) conditions.

## **3 DOSAGE FORMS AND STRENGTHS**

For injection: 4 mg of lurbinectedin as a sterile, preservative-free, white to off-white lyophilized powder in a single-dose vial for reconstitution prior to intravenous infusion.

## **4 CONTRAINDICATIONS**

None.

## **5 WARNINGS AND PRECAUTIONS**

### **5.1 Myelosuppression**

ZEPZELCA can cause myelosuppression.

In clinical studies of 554 patients with advanced solid tumors receiving ZEPZELCA [see *Adverse Reactions (6.1)*], Grade 3 or 4 neutropenia occurred in 41% of patients, with a median time to onset of 15 days and a median duration of 7 days. Febrile neutropenia occurred in 7% of patients. Sepsis occurred in 2% of patients and was fatal in 1% (all cases occurred in patients with solid tumors other than SCLC). Grade 3 or 4 thrombocytopenia occurred in 10%, with a median time to onset of 10 days and a median duration of 7 days. Grade 3 or 4 anemia occurred in 17% of patients.

Administer ZEPZELCA only to patients with baseline neutrophil count of at least 1,500 cells/mm<sup>3</sup> and platelet count of at least 100,000/mm<sup>3</sup>. Monitor blood counts including neutrophil count and platelet count prior to each administration. For neutrophil count less than 500 cells/mm<sup>3</sup> or any value less than lower limit of normal, the use of G-CSF is recommended. Withhold, reduce the dose, or permanently discontinue ZEPZELCA based on severity [see *Dosage and Administration (2.2)*].

## 5.2 Hepatotoxicity

ZEPZELCA can cause hepatotoxicity.

In clinical studies of 554 patients with advanced solid tumors receiving ZEPZELCA [see *Adverse Reactions (6.1)*], Grade 3 elevations of ALT and AST were observed in 6% and 3% of patients, respectively, and Grade 4 elevations of ALT and AST were observed in 0.4% and 0.5% of patients, respectively. The median time to onset of Grade  $\geq$  3 elevation in transaminases was 8 days (range: 3 to 49), with a median duration of 7 days.

Monitor liver function tests prior to initiating ZEPZELCA and periodically during treatment as clinically indicated. Withhold, reduce the dose, or permanently discontinue ZEPZELCA based on severity [see *Dosage and Administration (2.2)*].

## 5.3 Extravasation Resulting in Tissue Necrosis

Extravasation of ZEPZELCA resulting in skin and soft tissue injury, including necrosis requiring debridement, can occur. Consider use of a central venous catheter to reduce the risk of extravasation, particularly in patients with limited venous access. Monitor patients for signs and symptoms of extravasation during the ZEPZELCA infusion. If extravasation occurs, immediately discontinue the infusion, remove the infusion catheter, and monitor for signs and symptoms of tissue necrosis. The time to onset of necrosis after extravasation may vary.

Administer supportive care and consult with an appropriate medical specialist as needed for signs and symptoms of extravasation. Administer subsequent infusions at a site that was not affected by extravasation.

## 5.4 Rhabdomyolysis

Rhabdomyolysis has been reported in patients treated with ZEPZELCA. Monitor creatine phosphokinase (CPK) prior to initiating ZEPZELCA and periodically during treatment as clinically indicated. Withhold or reduce the dose based on severity [see *Dosage and Administration (2.2)*].

## 5.5 Embryo-Fetal Toxicity

Based on animal data and its mechanism of action ZEPZELCA can cause fetal harm when administered to a pregnant woman. Intravenous administration of a single dose of lurbectedin (approximately 0.2 times the 3.2 mg/m<sup>2</sup> clinical dose) to pregnant animals during the period of organogenesis caused 100% embryoletality in rats. Advise pregnant women of the potential risk to a fetus. Advise female patients of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 6 months after the last dose. Advise male patients with female partners of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 4 months after the last dose [see *Use in Specific Populations (8.1, 8.3)*].

## 6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Myelosuppression [see Warnings and Precautions (5.1)]
- Hepatotoxicity [see Warnings and Precautions (5.2)]
- Extravasation Resulting in Tissue Necrosis [see Warnings and Precautions (5.3)]
- Rhabdomyolysis [see Warnings and Precautions (5.4)]

## 6.1 Clinical Trials Experience

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

The pooled safety population described in the WARNINGS AND PRECAUTIONS reflects exposure to ZEPZELCA as a single agent at a dose of 3.2 mg/m<sup>2</sup> intravenously every 21 days in 554 patients with advanced solid tumors. Among 554 patients who received ZEPZELCA, including 105 patients with small cell lung cancer (SCLC) in PM1183-B-005-14 (Study B-005), 24% were exposed for 6 months or longer and 5% were exposed for greater than one year.

### Small Cell Lung Cancer (SCLC)

The safety of ZEPZELCA was evaluated in a cohort of 105 patients with previously treated SCLC in Study B-005 [see Clinical Studies (14)]. Patients received ZEPZELCA 3.2 mg/m<sup>2</sup> intravenously every 21 days. All patients in this study received a pre-specified anti-emetic regimen consisting of a corticosteroid and serotonin antagonist. Patients could receive G-CSF for secondary prophylaxis (i.e., after patients had an initial decrease in WBC), but not primary prophylaxis. Among patients who received ZEPZELCA, 29% were exposed for 6 months or longer and 6% were exposed for greater than one year.

Serious adverse reactions occurred in 34% of patients who received ZEPZELCA. Serious adverse reactions in ≥ 3% of patients included pneumonia, febrile neutropenia, neutropenia, respiratory tract infection, anemia, dyspnea, and thrombocytopenia.

Permanent discontinuation due to an adverse reaction occurred in two patients (1.9%) who received ZEPZELCA. Adverse reactions resulting in permanent discontinuation in ≥ 1% of patients who received ZEPZELCA, which included peripheral neuropathy and myelosuppression.

Dosage interruptions due to an adverse reaction occurred in 30.5% of patients who received ZEPZELCA. Adverse reactions requiring dosage interruption in ≥ 3% of patients who received ZEPZELCA included neutropenia, and hypoalbuminemia.

Dose reductions due to an adverse reaction occurred in 25% of patients who received ZEPZELCA. Adverse reactions requiring dosage reductions in ≥ 3% of patients who received ZEPZELCA included neutropenia, febrile neutropenia and fatigue.

The most common adverse reactions, including laboratory abnormalities, (≥ 20%) were leukopenia, lymphopenia, fatigue, anemia, neutropenia, increased creatinine, increased alanine aminotransferase, increased glucose, thrombocytopenia, nausea, decreased appetite, musculoskeletal pain, decreased albumin, constipation, dyspnea, decreased sodium, increased aspartate aminotransferase, vomiting, cough, decreased magnesium and diarrhea.

Table 3 summarizes the adverse reactions in the SCLC cohort of Study B-005.

**Table 3: Adverse Reactions ( $\geq 10\%$ ) in Patients with SCLC Who Received ZEPZELCA in Study B-005**

Adverse Reaction	ZEPZELCA (n=105)	
	All Grades <sup>a,b</sup> (%)	Grades 3-4 (%)
<b>General disorders</b>		
Fatigue	77	12
Pyrexia	13	0
Chest pain	10	0
<b>Gastrointestinal disorders</b>		
Nausea	37	0
Constipation	31	0
Vomiting	22	0
Diarrhea	20	4
Abdominal pain <sup>c</sup>	11	1
<b>Musculoskeletal and connective tissue disorders</b>		
Musculoskeletal pain <sup>d</sup>	33	4
<b>Metabolism and nutrition disorders</b>		
Decreased appetite	33	1
<b>Respiratory, thoracic and mediastinal disorders</b>		
Dyspnea	31	6
Cough <sup>e</sup>	20	0
<b>Infections and infestations</b>		
Respiratory tract infection <sup>f</sup>	18	5
Pneumonia <sup>g</sup>	10	7
<b>Nervous system disorders</b>		
Peripheral neuropathy <sup>h</sup>	11	1
Headache	10	1

a Graded per NCI CTCAE 4.0.

b No grade 5 adverse reactions were reported.

c Includes abdominal pain, abdominal pain upper and abdominal discomfort.

d Includes musculoskeletal pain, back pain, arthralgia, pain in extremity, musculoskeletal chest pain, neck pain, bone pain and myalgia.

e Includes cough and productive cough.

f Includes upper respiratory tract infection, viral upper respiratory tract infection, respiratory tract infection and bronchitis.

g Includes pneumonia and lung infection.

h Includes neuropathy peripheral, neuralgia, paresthesia, peripheral sensory

neuropathy, hypoesthesia, and hyperesthesia.

Clinically relevant adverse reactions in < 10% of patients who received ZEPZELCA include dysgeusia, febrile neutropenia and pneumonitis.

Table 4 summarizes the laboratory abnormalities in Study B-005.

**Table 4: Select Laboratory Abnormalities ( $\geq 20\%$ ) Worsening from Baseline in Patients with SCLC Who Received ZEPZELCA in Study B-005**

Laboratory Abnormality	ZEPZELCA <sup>a</sup> (n=105)	
	All Grades <sup>b</sup> (%)	Grades 3-4 (%)
<b>Hematology</b>		
Decreased leukocytes	79	29
Decreased lymphocytes	79	43
Decreased hemoglobin	74	10
Decreased neutrophils	71	46
Decreased platelets	37	7
<b>Chemistry</b>		
Increased creatinine	69	0
Increased alanine aminotransferase	66	4
Increased glucose	52	5
Decreased albumin	32	1
Decreased sodium	31	7
Increased aspartate aminotransferase	26	2
Decreased magnesium	22	0

a The denominator used to calculate the rate varied from 95 to 105 based on the number of patients with a baseline value and at least one post-treatment value.

b Graded per NCI CTCAE 4.0.

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of ZEPZELCA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*General disorders and administration site conditions:* Extravasation including tissue necrosis requiring debridement.

*Musculoskeletal and Connective Tissue Disorders:* Rhabdomyolysis.

*Metabolism and nutrition disorders:* Tumor lysis syndrome.

## 7 DRUG INTERACTIONS

## 7.1 Effect of Other Drugs on ZEPZELCA

### Strong and Moderate CYP3A Inhibitors

Coadministration of ZEPZELCA with a strong or a moderate CYP3A inhibitor increases lurbinedetin systemic exposure [see *Clinical Pharmacology (12.3)*], which may increase the incidence and severity of adverse reactions to ZEPZELCA.

Avoid grapefruit and Seville oranges during ZEPZELCA treatment, as these contain strong or moderate inhibitors of CYP3A.

#### *Strong CYP3A Inhibitors*

Avoid coadministration of ZEPZELCA with strong CYP3A inhibitors. If coadministration cannot be avoided, reduce the dose of ZEPZELCA [see *Dosage and Administration (2.3)*].

#### *Moderate CYP3A Inhibitors*

Avoid coadministration of ZEPZELCA with moderate CYP3A inhibitors. If coadministration cannot be avoided, consider dose reduction of ZEPZELCA if clinically indicated [see *Dosage and Administration (2.2)*].

### Strong CYP3A Inducers

Avoid coadministration of ZEPZELCA with strong CYP3A inducers. Coadministration of ZEPZELCA with a strong CYP3A inducer may decrease lurbinedetin systemic exposure, which may decrease the efficacy of ZEPZELCA [see *Clinical Pharmacology (12.3)*].

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Risk Summary

Based on animal data and its mechanism of action [see *Clinical Pharmacology (12.1)*], ZEPZELCA can cause fetal harm when administered to a pregnant woman. There are no available data to inform the risk of ZEPZELCA use in pregnant women. Intravenous administration of a single lurbinedetin dose (approximately 0.2 times the 3.2 mg/m<sup>2</sup> clinical dose) to pregnant rats during the period of organogenesis caused embryoletality (see *Data*).

Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

#### Data

##### *Animal Data*

In a reproductive toxicity study, administration of a single lurbinedetin dose of 0.6 mg/m<sup>2</sup> (approximately 0.2 times of the human dose of 3.2 mg/m<sup>2</sup>) to pregnant rats on Gestation Day 10 resulted in 100% post-implantation loss.

## **8.2 Lactation**

### Risk Summary

There are no data on the presence of lurbinectedin in human milk or its effects on the breastfed child or on milk production. Because of the potential for serious adverse reactions from ZEPZELCA in breastfed children, advise women not to breastfeed during treatment with ZEPZELCA and for 2 weeks after the last dose.

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

ZEPZELCA can cause embryoletality at doses lower than the human dose of 3.2 mg/m<sup>2</sup> [see *Use in Specific Populations (8.1)*].

### Pregnancy Testing

Verify the pregnancy status of females of reproductive potential prior to initiating ZEPZELCA.

### Contraception

#### *Females*

Advise female patients of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 6 months after the last dose.

#### *Males*

Advise males with a female sexual partner of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 4 months after the last dose.

## **8.4 Pediatric Use**

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

## **8.5 Geriatric Use**

Of the 105 patients with SCLC administered ZEPZELCA in clinical studies, 37 (35%) patients were 65 years of age and older, while 9 (9%) patients were 75 years of age and older. No overall difference in effectiveness was observed between patients aged 65 and older and younger patients.

There was a higher incidence of serious adverse reactions in patients  $\geq$  65 years of age than in patients  $<$  65 years of age (49% vs. 26%, respectively). The serious adverse reactions most frequently reported in patients  $\geq$  65 years of age were related to myelosuppression and consisted of febrile neutropenia (11%), neutropenia (11%), thrombocytopenia (8%), and anemia (8%) [see *Adverse Reactions (6.1)*].

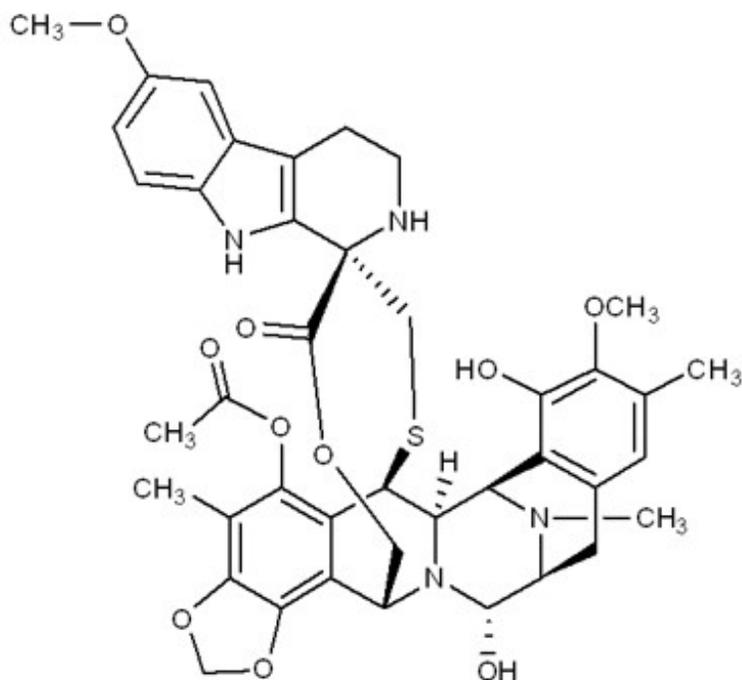
## **8.6 Hepatic Impairment**

The effect of moderate or severe hepatic impairment (total bilirubin  $>$  1.5  $\times$  ULN and any AST) on the pharmacokinetics of lurbinectedin has not been studied. No dose adjustment of ZEPZELCA is recommended for patients with mild hepatic impairment (total bilirubin  $\leq$  ULN and AST  $>$  ULN or total bilirubin 1 to 1.5  $\times$  ULN and any AST) [see *Clinical Pharmacology (12.3)*].

## 11 DESCRIPTION

ZEPZELCA is an alkylating drug. The chemical name of ZEPZELCA (lurbinectedin) is (1'R,6R,6aR,7R,13S,14S,16R)-8,14-dihydroxy-6',9-dimethoxy-4,10,23-trimethyl-19-oxo-2',3',4',6,7,9',12,13,14,16-decahydro-6aH-spiro[7,13-azano-6,16-(epithiopropanooxymethano) [1,3]dioxolo[7,8]isoquinolino[3,2-b][3]benzazocine-20,1'-pyrido[3,4-b]indol]-5-yl acetate.

The molecular formula is  $C_{41}H_{44}N_4O_{10}S$ . The molecular weight is 784.87g/mol, and the chemical structure is:



ZEPZELCA for injection 4 mg is supplied as a lyophilized powder in a single-dose vial for reconstitution for intravenous use. The ZEPZELCA lyophilized formulation is comprised of 4 mg lurbinectedin, sucrose (800 mg), lactic acid (22.1 mg), and sodium hydroxide (5.1 mg). Before use, the lyophilizate is reconstituted by addition of 8 mL Sterile Water for Injection USP, yielding a solution containing 0.5 mg/mL lurbinectedin (the calculated concentration is 0.47 mg/mL based on the final volume of 8.5 mL).

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Lurbinectedin is an alkylating drug that binds guanine residues in the minor groove of DNA, forming adducts and resulting in a bending of the DNA helix towards the major groove. Adduct formation triggers a cascade of events that can affect the subsequent activity of DNA binding proteins, including some transcription factors, and DNA repair pathways, resulting in perturbation of the cell cycle and eventual cell death.

Lurbinectedin inhibited human monocyte activity in vitro and reduced macrophage infiltration in implanted tumors in mice.

## **12.2 Pharmacodynamics**

Lurbinectedin exposure-response relationships and the pharmacodynamic time-course for efficacy have not been fully characterized.

Increased incidence of Grade 4 neutropenia and Grade  $\geq$  3 thrombocytopenia were observed with increased lurbinectedin exposure.

### Cardiac Electrophysiology

No large mean increase in QTc (i.e.,  $> 20$  ms) was detected at the recommended dose of 3.2 mg/m<sup>2</sup>.

## **12.3 Pharmacokinetics**

Following the approved recommended dosage, geometric mean (%CV) of plasma C<sub>max</sub> and AUC<sub>0-inf</sub>, were 107 µg/L (79%) and 551 µg•h/L (94%), respectively. No accumulation of lurbinectedin in plasma is observed upon administrations every 3 weeks.

### Distribution

The volume of distribution of lurbinectedin at steady state is 504 L (39%). Plasma protein binding is approximately 99%, to both albumin and  $\alpha$ -1-acid glycoprotein.

### Elimination

The terminal half-life of lurbinectedin is 51 hours. Total plasma clearance of lurbinectedin is 11 L/h (50%).

### *Metabolism*

Lurbinectedin is metabolized by CYP3A in vitro.

### *Excretion*

After a single dose of radiolabeled lurbinectedin, 89% of the radioactivity was recovered in feces ( $< 0.2\%$  unchanged) and 6% in urine (1% unchanged).

### Specific Populations

No clinically significant differences in the pharmacokinetics of lurbinectedin were identified based on age (18-85 years), sex, body weight (39-154 kg), mild to moderate renal impairment (CL<sub>cr</sub> 30 to 89 mL/min) or mild hepatic impairment (total bilirubin  $\leq$  ULN and AST  $>$  ULN, or total bilirubin between 1 to 1.5  $\times$  ULN and any AST). The effects of severe renal impairment (CL<sub>cr</sub>  $<$  30 mL/min) and moderate or severe hepatic impairment (total bilirubin  $>$  1.5  $\times$  ULN and any AST) on the pharmacokinetics of lurbinectedin have not been studied.

### Drug Interactions Studies

#### *Clinical Studies*

*Effects of CYP3A Inhibitors on Lurbinectedin:* Coadministration of itraconazole (a strong CYP3A inhibitor) increased systemic exposure (AUC) of total lurbinectedin by 2.7-fold and unbound lurbinectedin by 2.4-fold.

*Effects of CYP3A Inducers on Lurbinectedin:* Coadministration of bosentan (a moderate CYP3A inducer) decreased systemic exposure (AUC) of total lurbinectedin by 20% and unbound lurbinectedin by 19%. These changes are not considered clinically relevant.

#### *In vitro Studies*

*Cytochrome P450 (CYP) Enzymes:* Lurbinectedin is not an inhibitor of CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1, or CYP3A4.

Lurbinectedin is not an inducer of CYP1A2 or CYP3A4.

*Transporter Systems:* Lurbinectedin is a substrate of MDR1, but is not a substrate of OATB1P1, OATP1B3, OCT1, or MATE1. Lurbinectedin inhibits MDR1, OATP1B1, OATP1B3, and OCT1 but not BCRP, BSEP, MATE1, OAT1, OAT3, or OCT2.

## **13 NONCLINICAL TOXICOLOGY**

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

Carcinogenicity testing of lurbinectedin has not been performed. Lurbinectedin is genotoxic to mammalian cells in the presence and absence of metabolic activation. Lurbinectedin was not mutagenic in vitro in a bacterial reverse mutation (Ames) assay.

Fertility studies with lurbinectedin were not performed. There were no findings in reproductive organs in general toxicology studies in rats, dogs, or monkeys; however, the highest doses and exposures in these studies were all at levels lower than those at the human dose of 3.2 mg/m<sup>2</sup>.

## **14 CLINICAL STUDIES**

PM1183-B-005-14 (Study B-005; NCT02454972) is a multicenter, open-label, multi-cohort trial evaluating ZEPZELCA as a single agent in patients with advanced or metastatic solid tumors. A cohort of patients with small cell lung cancer (SCLC) with disease progression on or after platinum-based chemotherapy received ZEPZELCA 3.2 mg/m<sup>2</sup> by intravenous infusion every 21 days (one cycle). Patients received a median of 4 cycles of ZEPZELCA (range 1 to 24 cycles). The trial excluded patients with central nervous system (CNS) involvement, grade  $\geq$  3 dyspnea, daily intermittent oxygen requirement, hepatitis or cirrhosis, and immunocompromised patients. Tumor assessments were conducted every 6 weeks for the first 18 weeks and every 9 weeks thereafter. The major efficacy outcome measure was confirmed investigator-assessed overall response rate (ORR). Additional efficacy outcome measures included duration of response (DoR), and an Independent Review Committee (IRC) assessed ORR using Response Evaluation Criteria in Solid Tumors (RECIST v1.1).

A total of 105 patients with SCLC who progressed on or after platinum-based chemotherapy were enrolled. The median age was 60 years (range: 40 to 83) with 65% of patients < 65 years and 35% of patients  $\geq$  65 years, and 60% were male. The majority (75%) of the patients were White, 1% were Asian, 1% were Black and 23% were not reported. Baseline ECOG performance status was 0 or 1 in 92% of patients, and 92% were former/current smokers. All patients received at least one line of platinum-based chemotherapy (range 1-2 lines), and prior radiotherapy had been administered to 71% of patients. Eight patients (8%) had prior immunotherapy in addition to platinum-

based chemotherapy. Sixty patients (57%) had platinum-sensitive SCLC, defined as recurrence or progression  $\geq 90$  days after the last dose of platinum-containing therapy (chemotherapy free interval [CTFI]  $\geq 90$  days). The remaining 45 patients had platinum-resistant SCLC, defined as recurrence or progression  $< 90$  days after the last dose of platinum-containing therapy (CTFI  $< 90$  days).

Table 5 summarizes investigator-assessed and independent review committee assessed key efficacy measures in all patients and in platinum-resistant and platinum-sensitive subgroups.

**Table 5: Efficacy Results in SCLC Cohort of Study B-005**

<b>Investigator Assessed Response<sup>a</sup></b>	<b>ZEPZELCA All Patients (n=105)</b>	<b>ZEPZELCA CTFI &lt;90 days (n=45)</b>	<b>ZEPZELCA CTFI <math>\geq 90</math> days (n=60)</b>
<b>Overall Response Rate (95% CI)</b>	35% (26%, 45%)	22% (11%, 37%)	45% (32%, 58%)
Complete response	0%	0%	0%
Partial response	35%	22%	45%
<b>Duration of Response</b>			
Median in months (95% CI)	5.3 (4.1, 6.4)	4.7 (2.6, 5.6)	6.2 (3.5, 7.3)
% with $\geq 6$ months <sup>b</sup>	35%	10%	44%
<b>Independent Review Committee Assessed Response<sup>a</sup></b>	<b>All Patients (n=105)</b>	<b>CTFI &lt;90 days (n=45)</b>	<b>CTFI <math>\geq 90</math> days (n=60)</b>
<b>Overall Response Rate (95% CI)</b>	30% (22%, 40%)	13% (5%, 27%)	43% (31%, 57%)
Complete response	0%	0%	0%
Partial response	30%	13%	43%
<b>Duration of Response</b>			
Median in months (95% CI)	5.1 (4.9, 6.4)	4.8 (2.4, 5.3)	5.3 (4.9, 7.0)
% with $\geq 6$ months <sup>b</sup>	25%	0%	31%

CI: confidence interval, CTFI: chemotherapy free interval.

a Confirmed overall response rate.

b Based on observed duration of response.

## 15 REFERENCES

1. "OSHA Hazardous Drugs." OSHA. <http://www.osha.gov/SLTC/hazardousdrugs/index.html>

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

### How Supplied

ZEPZELCA (lurbinectedin) for injection is supplied as a sterile, preservative-free, white to off-white lyophilized powder in a single-dose clear glass vial. Each carton (NDC 68727-712-01) contains 4 mg in one single-dose vial.

### Storage and Handling

Store refrigerated at 2° to 8°C (36° to 46°F).

ZEPZELCA is a hazardous drug. Follow applicable special handling and disposal procedures<sup>1</sup>.

## **17 PATIENT COUNSELING INFORMATION**

Advise the patient to read the FDA-approved patient labeling (Patient Information).

### Myelosuppression

Advise patients to immediately contact their healthcare provider for fever, other signs of infection, unusual bruising, bleeding, tiredness or pallor [*see Warnings and Precautions (5.1)*].

### Hepatotoxicity

Advise patients to contact their healthcare provider immediately for signs and symptoms suggestive of hepatotoxicity [*see Warnings and Precautions (5.2)*].

### Extravasation Resulting in Tissue Necrosis

Advise patients to contact their healthcare provider immediately for signs and symptoms of extravasation. The time to onset of necrosis after extravasation may vary [*see Warnings and Precautions (5.3)*].

### Rhabdomyolysis

Advise patients to contact their healthcare provider immediately for signs and symptoms of rhabdomyolysis [*see Warnings and Precautions (5.4)*].

### Embryo-Fetal Toxicity

- Advise pregnant women and females of reproductive potential of the potential risk to a fetus. Advise females to inform their healthcare provider of a known or suspected pregnancy [*see Warnings and Precautions (5.5) and Use in Specific Populations (8.1)*].
- Advise females of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 6 months after the last dose [*see Use in Specific Populations (8.3)*].
- Advise males with female partners of reproductive potential to use effective contraception during treatment with ZEPZELCA and for 4 months after the last dose [*see Use in Specific Populations (8.3)*].

## Lactation

Advise women not to breastfeed during treatment with ZEPZELCA and for at least 2 weeks after the last dose [see *Use in Specific Populations (8.2)*].

## Drug Interactions

Advise patients to inform their healthcare providers of all concomitant medications, herbal and dietary supplements. Advise patients to avoid grapefruit products and Seville oranges during treatment with ZEPZELCA [see *Drug Interactions (7.1)*].

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Palo Alto, CA 94304

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## **Patient Package Insert**

### **PATIENT INFORMATION ZEPZELCA® (zep zel' kah) (lurbinectedin) for injection**

#### **What is ZEPZELCA?**

- ZEPZELCA is used to treat adults with a kind of lung cancer called small cell lung cancer (SCLC). ZEPZELCA may be used when your lung cancer:
  - o has spread to other parts of the body (metastatic), **and**
  - o you have received treatment with chemotherapy that contains platinum, and it did not work or is no longer working.

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

#### **Before receiving ZEPZELCA, tell your healthcare provider about all of your medical conditions, including if you:**

- have liver or kidney problems.
- are pregnant or plan to become pregnant. ZEPZELCA can harm your unborn baby.  
**Females who are able to become pregnant:**
  - o Your healthcare provider should do a pregnancy test before you start treatment with ZEPZELCA.
  - o You should use effective birth control (contraception) during treatment with and for 6 months after your last dose of ZEPZELCA.
  - o Tell your healthcare provider right away if you become pregnant or think that you are pregnant during treatment with ZEPZELCA.

**Males with female partners who are able to become pregnant** should use effective birth control during treatment with and for 4 months after your last dose of ZEPZELCA.

- are breastfeeding or plan to breastfeed. It is not known if ZEPZELCA passes into your breastmilk. Do not breastfeed during treatment with ZEPZELCA and for 2 weeks after your last dose of ZEPZELCA. Talk to your healthcare provider about the best way to feed your baby during treatment with ZEPZELCA.

**Tell your healthcare provider about all the medicines you take**, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Certain other medicines may affect how ZEPZELCA works. Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

### **How will I receive ZEPZELCA?**

- ZEPZELCA is given by an intravenous (IV) infusion into a vein over 60 minutes.
- ZEPZELCA is usually given every 21 days.
- Before each treatment with ZEPZELCA, you may receive medicines to help prevent nausea and vomiting or make it less severe.
- Your healthcare provider will decide how long you will continue treatment with ZEPZELCA.
- Your healthcare provider may do certain tests during your treatment with ZEPZELCA to check you for side effects, and to see how well you respond to the treatment.

### **What should I avoid while using ZEPZELCA?**

- Avoid eating or drinking grapefruit, Seville oranges, or products that contain grapefruit juice and Seville oranges during treatment with ZEPZELCA.

### **What are the possible side effects of ZEPZELCA?**

**ZEPZELCA can cause serious side effects, including:**

- **Low blood cell counts.** Low blood counts including low neutrophil counts (neutropenia) and low platelet counts (thrombocytopenia) are common with ZEPZELCA, and can also be severe. Some people with low white blood cell counts may get fever, or an infection throughout the body (sepsis), that can cause death. Your healthcare provider should do blood tests before you receive each treatment with ZEPZELCA to check your blood cell counts.

**Tell your healthcare provider right away if you develop:**

- fever or any other signs of infection
  - unusual bruising or bleeding
  - tiredness
  - pale colored skin
- **Liver problems.** Increased liver function tests are common with ZEPZELCA and can also be severe. Your healthcare provider should do blood tests to check your liver function before you start and during treatment with ZEPZELCA.
- Tell your healthcare provider right away if you develop symptoms of liver problems including:**

- loss of appetite
  - nausea or vomiting
  - pain on the right side of your stomach-area (abdomen)
- **Leakage of ZEPZELCA out of your vein during the infusion.** If ZEPZELCA leaks into the tissues around your infusion site, it can cause damage and death of tissue cells around the infusion site. You may need to have surgery to remove any dead tissue. Tell your healthcare provider right away if you see any ZEPZELCA leaking out of your vein or around the catheter during your infusion, or if you notice any redness, swelling, itching or discomfort at the infusion site at any time.
  - **Severe muscle problems (rhabdomyolysis).** Tell your healthcare provider if you have severe muscle pain or weakness.

Your healthcare provider may temporarily stop treatment, lower your dose, or permanently stop ZEPZELCA if you develop serious side effects during treatment with ZEPZELCA.

**The most common side effects of ZEPZELCA include:**

- tiredness
- low white and red blood cell counts
- increased kidney function blood test (creatinine)
- increased liver function blood tests
- increased blood sugar (glucose)
- nausea
- decreased appetite
- muscle and joint (musculoskeletal) pain
- low level of albumin in the blood
- constipation
- trouble breathing
- low levels of sodium and magnesium in the blood
- vomiting
- cough
- diarrhea

These are not all of the possible side effects of ZEPZELCA. 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 ZEPZELCA.**

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

**What are the ingredients in ZEPZELCA?**

**Active ingredient:** lurbinctedin

**Inactive ingredients:** sucrose, lactic acid and sodium hydroxide.

Distributed by: Jazz Pharmaceuticals, Inc.

Palo Alto, CA 94304

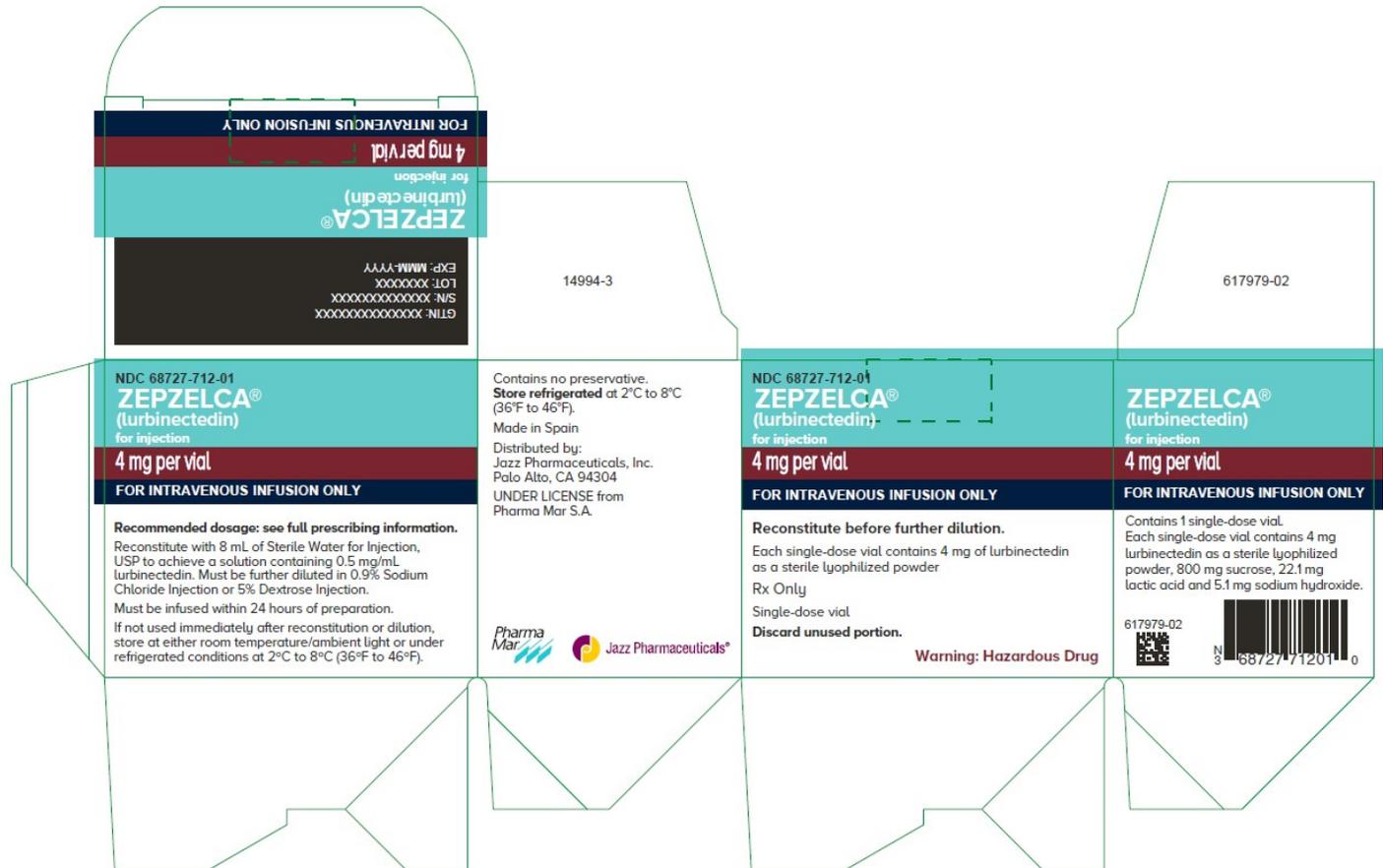
Under license from Pharma Mar, S.A.

ZEPZELCA is a registered trademark of Pharma Mar, S.A.

For more information, go to [www.ZEPZELCA.com](http://www.ZEPZELCA.com) or call 1-800-520-5568.

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: 07/2023

## PACKAGE/LABEL PRINCIPAL DISPLAY PANEL



Carton:

NDC 68727-712-01

ZEPZELCA

(lurbinectedin)

for injection

4 mg per vial

FOR INTRAVENOUS INFUSION ONLY

Reconstitute before further dilution.

Each single-dose vial contains 4 mg of lurbinectedin as a sterile lyophilized powder

Rx Only

Single-dose vial

Discard unused portion.

Caution: Cytotoxic agent

Package/Label Display Panel

	<b>NDC 68727-712-01</b> <b>ZEPZELCA<sup>®</sup></b> <b>(lurbinectedin)</b> for injection	<b>Recommended dosage:</b> <b>See full prescribing information.</b> Reconstitute before further dilution. <b>Store refrigerated</b> at 2°C to 8°C (36°F to 46°F).	<b>61798103</b> 14995-4 LOT XXXXXXXX EXP MMM-YYYY
	<b>4 mg per vial</b> <b>FOR INTRAVENOUS INFUSION ONLY</b>	Rx Only <b>Warning: Hazardous Drug</b>	
Single-Dose Vial. Discard unused portion.	 	Made in Spain Distributed by: Jazz Pharmaceuticals, Inc., Palo Alto, CA 94304 UNDER LICENSE from Pharma Mar S.A.	

Vial:

NDC 68727-712-01  
 ZEPZELCA  
 (lurbinectedin)  
 for injection  
 4 mg per vial  
 FOR INTRAVENOUS INFUSION ONLY  
 Single-Dose Vial.  
 Discard unused portion.

## ZEPZELCA

lurbinectedin injection, powder, lyophilized, for solution

### Product Information

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:68727-712
<b>Route of Administration</b>	INTRAVENOUS		

### Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
<b>LURBINECTEDIN</b> (UNII: 2CN60TN6ZS) (LURBINECTEDIN - UNII:2CN60TN6ZS)	LURBINECTEDIN	.5 mg in 1 mL

### Inactive Ingredients

Ingredient Name	Strength
<b>SUCROSE</b> (UNII: C151H8M554)	100 mg in 1 mL
<b>LACTIC ACID, UNSPECIFIED FORM</b> (UNII: 33X04XA5AT)	2.76 mg in 1 mL
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	.64 mg in 1 mL
<b>WATER</b> (UNII: 059QF0KO0R)	1 mL in 1 mL

### Product Characteristics

<b>Color</b>	WHITE (white to off-white powder)	<b>Score</b>	
<b>Shape</b>		<b>Size</b>	
<b>Flavor</b>		<b>Imprint Code</b>	
<b>Contains</b>			

## Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68727-712-01	8 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product	06/15/2020	

## Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA213702	06/15/2020	

**Labeler** - Jazz Pharmaceuticals, Inc. (135926363)

**Registrant** - Jazz Pharmaceuticals Ireland Limited (896650210)

## Establishment

Name	Address	ID/FEI	Business Operations
Baxter Oncology GmbH		344276063	MANUFACTURE(68727-712) , PACK(68727-712) , ANALYSIS(68727-712) , LABEL(68727-712)

## Establishment

Name	Address	ID/FEI	Business Operations
Pharma Mar, SA		464884501	API MANUFACTURE(68727-712)

## Establishment

Name	Address	ID/FEI	Business Operations
AndersonBrecon Inc (Specialty Pharma Center SPC)		098908572	PACK(68727-712) , LABEL(68727-712)

## Establishment

Name	Address	ID/FEI	Business Operations
GP Pharm SA		462006581	MANUFACTURE(68727-712)

## Establishment

Name	Address	ID/FEI	Business Operations
Jazz Pharmaceuticals Ireland Limited		896650210	MANUFACTURE(68727-712)

Revised: 7/2023

Jazz Pharmaceuticals, Inc.