

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

Pr **PADCEV**<sup>®</sup>

enfortumab vedotin for injection

lyophilized powder for solution for intravenous infusion only

20 mg and 30 mg single-use vials

Antineoplastic Agent

ATC: L01FX13

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## RECENT MAJOR LABEL CHANGES

1 Indications	08/2024
4 Dosage and Administration, 4.2 Recommended Dose and Dosage Adjustment	08/2024
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## PART I: HEALTH PROFESSIONAL INFORMATION

### 1 INDICATIONS

PADCEV (enfortumab vedotin for injection), in combination with pembrolizumab, is indicated for the treatment of adult patients with unresectable locally advanced or metastatic urothelial cancer (mUC) with no prior systemic therapy for mUC.

Padcev, as a single agent, is indicated for the treatment of adult patients with unresectable locally advanced or metastatic urothelial cancer (mUC) who have previously received a platinum-containing chemotherapy and programmed death receptor-1 (PD-1) or programmed death-ligand 1 (PD-L1) inhibitor therapy.

#### 1.1 Pediatrics

**Pediatrics (<18 years of age):** No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

#### 1.2 Geriatrics

**Geriatrics (≥65 years of age):** No clinically relevant differences in efficacy were observed between patients ≥65 years and those younger than 65 years. Evidence from clinical studies suggests the use in the geriatric population may be associated with differences in safety. See 7 WARNINGS AND PRECAUTIONS, Special Populations.

### 2 CONTRAINDICATIONS

- Padcev is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING.

### 3 SERIOUS WARNINGS AND PRECAUTIONS BOX

#### Serious Warnings and Precautions

Clinically significant and/or life-threatening adverse events include:

- Severe cutaneous adverse reactions, including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), with fatal outcome have occurred in patients treated with Padcev (see 7 WARNINGS AND PRECAUTIONS).
- Hyperglycemia and diabetic ketoacidosis (DKA), including fatal events, have occurred in patients with and without pre-existing diabetes mellitus treated with Padcev (see 7 WARNINGS AND PRECAUTIONS).

## 4 DOSAGE AND ADMINISTRATION

### 4.1 Dosing Considerations

- Padcev is for intravenous infusion and must be reconstituted and diluted prior to administration. **Do not administer as an intravenous push or bolus.**

### 4.2 Recommended Dose and Dosage Adjustment

The recommended dose of Padcev as a single agent is 1.25 mg/kg (up to a maximum of 125 mg for patients  $\geq 100$  kg) administered as an intravenous infusion over 30 minutes on Days 1, 8, and 15 of a 28-day cycle until disease progression or unacceptable toxicity.

When given in combination with pembrolizumab, the recommended dose of enfortumab vedotin is 1.25 mg/kg (up to a maximum of 125 mg for patients  $\geq 100$  kg) administered as an intravenous infusion over 30 minutes on Days 1 and 8 of a 21-day cycle until disease progression or unacceptable toxicity. Administer Padcev before pembrolizumab when given on the same day. Provide for an interval of 30 minutes between infusions (for at least Cycle 1, Day 1), which can subsequently be reduced to 15 minutes if well tolerated.

Refer to the pembrolizumab Product Monograph for the recommended dosing information of pembrolizumab.

#### Patients with Hepatic Impairment

Avoid use of Padcev in patients with moderate (Child-Pugh B) or severe (Child-Pugh C) hepatic impairment. No dose adjustment is required in patients with mild hepatic impairment. Padcev has only been evaluated in a limited number of patients with moderate hepatic impairment and severe hepatic impairment. Patients with moderate or severe hepatic impairment are likely to have increased exposure to monomethyl auristatin E (MMAE) (see 10 CLINICAL PHARMACOLOGY, Pharmacokinetics).

#### Patients with Renal Impairment

No dose adjustment is required in patients with mild ( $\text{CrCl} > 60\text{-}90$  mL/min), moderate ( $\text{CrCl} 30\text{-}60$  mL/min) or severe ( $\text{CrCl} 15\text{-}<30$  mL/min) renal impairment (see 10 CLINICAL PHARMACOLOGY, Pharmacokinetics). Enfortumab vedotin has not been evaluated in patients with end stage renal disease ( $\text{CrCL} < 15$  mL/min).

#### Concomitant Use with Strong P-gp and CYP3A4 Inhibitors

No dose adjustment of Padcev is required with concomitant use of strong inhibitors of P-gp and CYP3A4. The concomitant use of strong inhibitors of P-gp and CYP3A4 with Padcev may result in an increase in unconjugated MMAE exposure. Closely monitor for adverse reactions when Padcev is given concomitantly with strong P-gp and CYP3A4 inhibitors (see 9 DRUG INTERACTIONS).

#### Pediatrics (<18 years of age)

Health Canada has not authorized an indication for pediatric use.

#### Geriatrics ( $\geq 65$ years of age)

No dose adjustment of Padcev is required in patients  $\geq 65$  years of age (see 10 CLINICAL

PHARMACOLOGY, Pharmacokinetics).

Dose Modifications for Adverse Reactions

The recommended Padcev dose reduction schedule is provided in Table 1.

**Table 1: Padcev Dose Reduction Schedule**

Dose Level	Padcev Dose
Starting dose	1.25 mg/kg up to 125 mg
First dose reduction	1.0 mg/kg up to 100 mg
Second dose reduction	0.75 mg/kg up to 75 mg
Third dose reduction	0.5 mg/kg up to 50 mg

The recommended Padcev dose modifications for patients with adverse reactions are provided in Table 2.

**Table 2: Padcev Dose Modifications for Adverse Reactions**

Adverse Reaction	Severity*	Padcev Dose Modification*
Skin Reactions	Suspected Stevens-Johnson syndrome (SJS) or toxic epidermal necrolysis (TEN), worsening or Grade 3 (severe)	Withhold until Grade $\leq 1$ , then resume treatment at the same dose level or consider dose reduction by one dose level.
	Confirmed SJS or TEN; Grade 4 or recurrent Grade 3	Permanently discontinue.
Hyperglycemia	Blood glucose >250 mg/dL	Withhold until elevated blood glucose has improved to $\leq 250$ mg/dL, then resume treatment at the same dose level.
Pneumonitis/Interstitial Lung Disease	Grade 2	Withhold until Grade $\leq 1$ , then resume treatment at the same dose level or consider dose reduction by one dose level.
	Grade $\geq 3$	Permanently discontinue.
Peripheral Neuropathy	Grade 2	Withhold until Grade $\leq 1$ , then resume treatment at the same dose level (if first occurrence). For a recurrence, withhold until Grade $\leq 1$ , then resume treatment reduced by one dose level.
	Grade $\geq 3$	Permanently discontinue.
Other Non-hematologic Toxicity	Grade 3	Withhold until Grade $\leq 1$ , then resume treatment at the same

Adverse Reaction	Severity*	Padcev Dose Modification*
		dose level or consider dose reduction by one dose level.
	Grade 4	Permanently discontinue.
Hematologic Toxicity	Grade 3, or Grade 2 thrombocytopenia	Withhold until Grade $\leq 1$ , then resume treatment at the same dose level or consider dose reduction by one dose level.
	Grade 4	Withhold until Grade $\leq 1$ , then reduce dose by one dose level or discontinue treatment.

\*Grade 1 is mild, Grade 2 is moderate, Grade 3 is severe, Grade 4 is life-threatening.

**Recommended Dose Modification for pembrolizumab used in combination with Padcev for mUC:**

See manufacturer’s Product Monograph for the coadministered product, pembrolizumab, for toxicity management, dose adjustment guidelines for special populations, and contraindications.

When administering Padcev in combination with pembrolizumab, interrupt one or both drugs, dose reduce or discontinue Padcev as appropriate. For Padcev dose modifications, see Tables 1 and 2.

Withhold or discontinue pembrolizumab in accordance with the instructions in the pembrolizumab Product Monograph. No dose reductions are recommended for pembrolizumab.

**4.3 Reconstitution**

Prior to administration, the Padcev vial is reconstituted with Sterile Water for Injection (SWFI). The reconstituted solution is subsequently diluted in an intravenous infusion bag containing sterile 5% Dextrose Injection, sterile 0.9% Sodium Chloride injection or sterile Lactated Ringer’s injection.

Reconstitution in a single-dose vial

1. Follow procedures for proper handling and disposal of anticancer drugs.
2. Use appropriate aseptic technique for reconstitution and preparation of dosing solutions.
3. Calculate the recommended dose based on the patient’s weight to determine the number of and strength (20 mg or 30 mg) of vials needed.
4. Reconstitute each vial according to Table 3 and, if possible, direct the stream of Sterile Water for Injection (SWFI) along the walls of the vial and not directly onto the lyophilized powder.

**Table 3 - Reconstitution**

Vial Size	Volume of Diluent to be Added to Vial	Approximate Available Volume	Concentration per mL
20 mg	2.3 mL of SWFI	2.0 mL of reconstituted solution	10 mg/mL enfortumab vedotin
30 mg	3.3 mL of SWFI	3.0 mL of reconstituted solution	10 mg/mL enfortumab vedotin

5. Slowly swirl each vial until the contents are completely dissolved. Allow the reconstituted vial(s) to settle for at least 1 minute until the bubbles are gone. **DO NOT SHAKE THE VIAL.** Do not expose to direct sunlight.
6. Visually inspect the solution for particulate matter and discoloration. The reconstituted solution should be clear to slightly opalescent, colourless to light yellow and free of visible particles. Discard any vial with visible particles or discoloration.
7. Based upon the calculated dose amount, the reconstituted solution from the vial(s) should be added to the infusion bag immediately. This product does not contain a preservative. If not used immediately, reconstituted vials may be stored for up to 24 hours in refrigeration at 2°C to 8°C (36 °F to 46 °F) (see 11 STORAGE, STABILITY AND DISPOSAL). **DO NOT FREEZE.** Discard unused vials with reconstituted solution beyond the recommended storage time.

#### Dilution in infusion bag

8. Withdraw the calculated dose amount of reconstituted solution from the vial(s) and transfer into an infusion bag.
9. Dilute Padcev with 5% Dextrose Injection, 0.9% Sodium Chloride Injection or Lactated Ringer's Injection. The infusion bag size should allow enough diluent to achieve a final concentration of 0.3 mg/mL to 4 mg/mL enfortumab vedotin.
10. Mix diluted solution by gentle inversion. **DO NOT SHAKE THE BAG.** Do not expose to direct sunlight.
11. Visually inspect the infusion bag for any particulate matter or discoloration prior to use. The reconstituted solution should be clear to slightly opalescent, colorless to light yellow and free of visible particles. **DO NOT USE** the infusion bag if particulate matter or discoloration is observed.
12. Discard any unused portion left in the single-dose vials.
13. The prepared infusion bag should not be stored longer than 16 hours under refrigeration at 2°C to 8°C (36 °F to 46 °F). **DO NOT FREEZE.**

#### **4.4 Administration**

Immediately administer the infusion over 30 minutes through an intravenous line.

**DO NOT** administer Padcev as an IV push or bolus.

**DO NOT** co-administer other drugs through the same infusion line.



#### 4.5 Missed Dose

A missed dose should be administered as soon as possible. Subsequent doses should not be administered less than 1 week apart.

### 5 OVERDOSAGE

There is no known antidote for overdose with Padcev. In case of overdose, the patient should be closely monitored for adverse reactions, and supportive treatment should be administered as appropriate taking into consideration the half-life of 3.6 days for the antibody-drug conjugate (ADC) and 2.6 days for MMAE.

For management of a suspected drug overdose, contact your regional poison control centre.

### 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

To help ensure the traceability of biologic products, including biosimilars, health professionals should recognise the importance of recording both the brand name and the non-proprietary (active ingredient) name as well as other product-specific identifiers such as the Drug Identification Number (DIN) and the batch/lot number of the product supplied.

**Table 4 – Dosage Forms, Strengths, Composition and Packaging**

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Intravenous infusion	Powder for concentrate for solution for infusion / 10 mg per mL	Histidine, histidine hydrochloride monohydrate, polysorbate 20, trehalose dihydrate

Padcev is supplied as single-dose vials containing 20 mg and 30 mg of enfortumab vedotin as a sterile, preservative-free, white to off-white lyophilized powder for reconstitution for intravenous infusion.

### 7 WARNINGS AND PRECAUTIONS

**Please see 3 SERIOUS WARNINGS AND PRECAUTIONS BOX**

#### General

Padcev should be administered under the supervision of physicians experienced in the treatment of cancer.

The pooled safety population described in 7 WARNINGS AND PRECAUTIONS reflect exposure to Padcev as a single agent at 1.25 mg/kg in 720 patients in EV-301 (NCT03474107), EV-201 (NCT03219333), EV-203 (NCT04995419) EV-101 (NCT02091999), and EV-102 (NCT03070990). Ocular disorders reflect 384 patients in EV-201, EV-101, and EV-102 with scheduled ophthalmological exams.

In addition, certain subsections in 7 WARNINGS AND PRECAUTIONS describe adverse reactions observed with exposure to Padcev at 1.25 mg/kg in combination with pembrolizumab in 564 patients in

EV-302 (NCT04223856) and EV-103 (NCT03288545).

### Infusion Site Extravasation

Skin and soft tissue injury following Padcev administration has been observed when extravasation occurred. Extravasation events occurred in 1% (7) of the 720 patients treated with Padcev 1.25 mg/kg as a single agent, including 0.3% (2) who experienced Grade 3-4 reactions. Extravasation events occurred in 1.6% (9) of the 564 patients treated with Padcev 1.25 mg/kg in combination with pembrolizumab. Reactions may be delayed. Erythema, swelling, increased temperature, and pain worsened until 2-7 days after extravasation and resolved within 1-4 weeks of peak. Two patients (0.3%) developed extravasation reactions with secondary cellulitis, bullae, or exfoliation. Ensure good venous access prior to starting Padcev and monitor for possible infusion site extravasation during administration. If extravasation occurs, stop the infusion and monitor for adverse reactions.

### **Endocrine and Metabolism**

#### Hyperglycemia

Hyperglycemia and diabetic ketoacidosis (DKA) including fatal events, occurred in patients with and without pre-existing diabetes mellitus treated with Padcev.

Patients with baseline hemoglobin A1C  $\geq 8\%$  were excluded from clinical trials.

In clinical studies, hyperglycemia occurred in 17% (123) of the 720 patients treated with Padcev 1.25 mg/kg as a single agent. Severe (Grade 3 or 4) hyperglycemia occurred in 7% (51) of patients (Grade 3: 6.5% (47), Grade 4: 0.6% (4)). Two patients experienced fatal events, one event each of hyperglycemia and diabetic ketoacidosis. The incidence of Grade 3 or 4 hyperglycemia increased consistently in patients with higher body mass index and in patients with higher baseline hemoglobin A1C. Five percent (35) of patients required initiation of insulin therapy for treatment of hyperglycemia. The median time to onset of hyperglycemia was 0.5 months (range: 0.1 to 20.3). Hyperglycemia led to discontinuation of Padcev in 0.7% (5) of patients and dose interruptions in 3% (25) of the 720 patients treated with Padcev. Eight (33%) of 24 patients had recrudescence after dose restart. Of the patients who experienced hyperglycemia and had data regarding resolution (N = 96), 66% had complete resolution, 20% had partial improvement, and 15% had no improvement at the time of their last evaluation. Of the 34% of patients with residual hyperglycemia at last evaluation, 61% had Grade  $\geq 2$  events.

When Padcev was given in combination with pembrolizumab, hyperglycemia occurred in 19% (107) of the 564 patients and 9.2% (52) of patients had severe (Grade 3 or 4) hyperglycemia (Grade 3: 8% (45), Grade 4: 1% (7)). Hyperglycemia led to discontinuation of Padcev in 0.2% (1) of patients and dose interruptions in 4% (22) of the 564 patients treated with the combination therapy.

Hyperglycemia occurred more frequently in patients with pre-existing hyperglycemia or a high body mass index ( $\geq 30$  kg/m<sup>2</sup>). Blood glucose levels should be monitored regularly in patients with or at risk for diabetes mellitus or hyperglycemia. If blood glucose is elevated ( $>13.9$  mmol/L;  $>250$  mg/dL), withhold Padcev (see 4 DOSAGE AND ADMINISTRATION, Recommended Dose and Dose Adjustment).

### **Neurologic**

#### Peripheral Neuropathy

Peripheral neuropathy, predominantly sensory, has occurred with Padcev, including Grade  $\geq 3$  reactions. Peripheral neuropathy occurred in patients treated with Padcev with or without pre-existing peripheral neuropathy. In clinical studies, peripheral neuropathy occurred in 53% (378) of

the 720 patients treated with Padcev 1.25 mg/kg as a single agent, including 38% with sensory neuropathy, 8% with muscular weakness and 7% with motor neuropathy. Thirty percent of patients experienced Grade 2 events and 5% experienced severe (Grade 3 or 4) peripheral neuropathy including sensory and motor events. The median time to onset of Grade  $\geq 2$  was 5 months (range 0.1 to 20.2 months). There were 161 (20%) patients that experienced peripheral neuropathy adverse events leading to dose interruption. Of these patients, 114 restarted at any dose, with 92 (81%) of patients experiencing recrudescence. Seven percent of patients discontinued treatment due to peripheral neuropathy. Patients with pre-existing peripheral neuropathy Grade  $\geq 2$  were excluded from clinical studies. Of the patients who experienced neuropathy and had data regarding resolution (N = 296), 11% had complete resolution, 47% had partial improvement, and 41% had no improvement at the time of their last evaluation. Of the patients with residual neuropathy at last evaluation, 50% (132/262) had Grade  $\geq 2$  events.

The incidence of peripheral neuropathy occurred at a higher rate when Padcev was given in combination with pembrolizumab compared to Padcev as a single agent. When Padcev was given in combination with pembrolizumab, 67% (376) of the 564 patients treated with combination therapy had peripheral neuropathy of any grade, 36% (204) had Grade 2 neuropathy, and 7% (38) had Grade 3 neuropathy. The median time to onset of Grade  $\geq 2$  peripheral neuropathy was 6 months (range: 0.3 to 25 months). Of the patients who experienced neuropathy and had data regarding resolution (N = 373), 13% had complete resolution, and 87% of patients had residual neuropathy at last evaluation. Of the patients with residual neuropathy at last evaluation, 45% (146/326) had Grade  $\geq 2$  neuropathy.

Monitor patients for symptoms of new or worsening peripheral neuropathy as these patients may require a delay, dose reduction or discontinuation of Padcev.

Permanently discontinue Padcev in patients who develop Grade  $\geq 3$  peripheral neuropathy (see 4 DOSAGE AND ADMINISTRATION, Recommended Dose and Dose Adjustment).

## **Ophthalmologic**

### Ocular Disorders

Ocular disorders, predominately dry eye, occurred in 40% of the 384 patients treated with Padcev as a single agent in clinical trials in which ophthalmologic exams were performed. The majority of ocular events involved the cornea and included events associated with dry eye such as keratitis, blurred vision, increased lacrimation, conjunctivitis, limbal stem cell deficiency, and keratopathy. In clinical studies, 14 (2.1%) patients interrupted, and 1 (0.1%) patient permanently discontinued treatment for ocular disorders. Severe (Grade 3) ocular disorders occurred only in 3 patients (0.4%). Thirteen percent of patients experienced dry eye symptoms during treatment with Padcev 1.25 mg/kg and the median time to onset was 1.7 months (range 0 to 19.1 months).

Monitor patients for ocular disorders such as dry eye and blurred vision. Consider artificial tears for prophylaxis of dry eye and refer patient for ophthalmologic evaluation if ocular symptoms do not resolve or worsen. Consider dose interruption or dose reduction of Padcev for symptomatic ocular disorders (see 4 DOSAGE AND ADMINISTRATION, Recommended Dose and Dose Adjustment).

## **Reproductive Health: Female and Male Potential**

### Pregnancy Testing

Pregnancy testing is recommended for females of reproductive potential within 7 days prior to initiating Padcev treatment (see 7 WARNINGS AND PRECAUTIONS, Special Populations, Pregnant

Women and 16 NON-CLINICAL TOXICOLOGY).

### Contraception

Advise females of reproductive potential to use effective contraception during treatment with Padcev and for at least 6 months after the last dose of Padcev (see 7 WARNINGS AND PRECAUTIONS, Special Populations, Pregnant Women and 16 NON-CLINICAL TOXICOLOGY).

Advise males of reproductive potential to use effective contraception during treatment with Padcev and for at least 4 months after the last dose of Padcev.

### Fertility

Testicular toxicity was observed in rats following repeat dosing at systemic exposures that were approximately equal to the human systemic exposure at the clinically recommended dose (see 16 NON-CLINICAL TOXICOLOGY). There are no data on the effect of Padcev on human fertility.

### **Respiratory**

#### Pneumonitis/Interstitial Lung Disease (ILD)

Severe, life-threatening or fatal pneumonitis/ILD have occurred in patients treated with Padcev. In clinical trials of Padcev as a single agent, 3% (22) of the 720 patients treated with Padcev had pneumonitis/ILD of any grade and 0.8% had Grade 3-4. In clinical trials, the median time to onset of pneumonitis/ILD disease was 2.9 months (range: 0.6 to 6 months). Two patients on trial also experienced fatal events.

The incidence of pneumonitis/ILD, including severe events occurred at a higher rate when Padcev was given in combination with pembrolizumab compared to Padcev as a single agent. When Padcev was given in combination with pembrolizumab, 10% of the 564 patients treated with combination therapy had pneumonitis/ILD of any grade and 4% had Grade 3-4. The median time to onset of pneumonitis/ILD was 4 months (range: from 0.3 to 26 months).

Two patients experienced a fatal event of pneumonitis/ILD.

Monitor patients for signs and symptoms indicative of pneumonitis/interstitial lung disease such as hypoxia, cough, dyspnea or interstitial infiltrates on radiologic exams. Evaluate and exclude infectious, neoplastic and other causes for such signs and symptoms through appropriate investigations.

Withhold Padcev for Grade 2 pneumonitis/interstitial lung disease, then resume treatment at the same dose level or consider dose reduction by one dose level.

Permanently discontinue Padcev for Grade  $\geq 3$  pneumonitis/interstitial lung disease (see 4 DOSAGE AND ADMINISTRATION, Recommended Dose and Dose Adjustment).

### **Skin**

#### Skin Reactions

Skin reactions are anticipated on-target events, as Nectin-4 is expressed in the skin.

Severe cutaneous adverse reactions, including SJS and TEN, with fatal outcome have occurred in patients treated with Padcev, predominately during the first cycle of treatment, but may occur later.

Skin reactions, predominantly mild to moderate maculopapular rash, have occurred with Padcev. In clinical studies of Padcev as a single agent, skin reactions occurred in 58% (414) of the 720 patients treated with Padcev 1.25 mg/kg. Severe (Grade 3 or 4) skin reactions occurred in 14% (102) of patients

and a majority of these reactions included maculo-papular rash, stomatitis, rash erythematous, rash or drug eruption, symmetrical drug-related intertriginous and flexural exanthema (SDRIFE), dermatitis bullous, dermatitis exfoliative, and palmar-plantar erythrodysesthesia. The median time to onset of severe skin reactions was 0.6 months (range: 0.1 to 8 months). Skin reactions led to dose interruption of Padcev in 12% of patients. Of the 75 patients who restarted Padcev after reporting a skin reaction leading to dose interruption, 24% of patients restarting at the same dose and 24% restarting at a reduced dose experienced recurrent severe skin reactions. Skin reactions led to discontinuation of Padcev in 3.1% of patients. Of the patients who experienced skin reactions and had data regarding resolution (N = 328), 58% had complete resolution and 42% had residual skin reactions at last evaluation. Of the patients with residual skin reactions at last evaluation, 39% had Grade  $\geq 2$  events.

The incidence of skin reactions occurred at a higher rate when Padcev was given in combination with pembrolizumab compared to Padcev as a single agent. In clinical studies of Padcev in combination with pembrolizumab, skin reactions occurred in 392 (70%) of the 564 patients and a majority of these skin reactions included rash maculo-papular, rash macular and rash papular. Severe (Grade 3 or 4) skin reactions occurred in 97 (17%) patients (Grade 3: 16%, Grade 4: 1%) including maculo-papular rash, bullous dermatitis, dermatitis, exfoliative dermatitis, pemphigoid, rash, erythematous rash, macular rash, and papular rash. The Grade 4 bullous dermatitis reaction was associated with a fatal event. The median time to onset of severe skin reactions was 1.7 months (range: 0.1 to 17.2 months). Skin reactions led to discontinuation of Padcev in 6% of patients and dose interruption of Padcev in 17% of patients. Of the patients who experienced skin reactions and had data regarding resolution (N = 391), 59% had complete resolution and 41% had residual skin reaction at last evaluation. Of the patients with residual skin reactions at last evaluation, 27% (43/159) had Grade  $\geq 2$  events.

Starting with the first cycle and throughout treatment, monitor patients for skin reactions. Consider appropriate therapy such as topical corticosteroids and antihistamines for mild to moderate skin reactions.

For worsening or severe (Grade 3) skin reactions, suspected SJS or TEN, withhold Padcev and consider referral for specialized care.

Permanently discontinue Padcev for confirmed SJS or TEN, Grade 4 or recurrent Grade 3 skin reactions (see 4 DOSAGE AND ADMINISTRATION, Recommended Dose and Dose Adjustment).

## **7.1 Special Populations**

### **7.1.1 Pregnant Women**

Padcev can cause fetal harm based upon findings from animal studies. There are no available human data on Padcev use in pregnant women to inform a drug-associated risk. Embryo-fetal development studies in female rats have shown that intravenous administration of enfortumab vedotin (2 or 5 mg/kg/dose; 1- and 3-fold the human  $C_{max}$ , respectively) resulted in maternal toxicity, embryo-fetal lethality, structural malformations and skeletal anomalies reduced numbers of viable fetuses, reduced

litter size, and increased early resorptions at maternal exposures approximately similar to the exposures at the recommended human dose of 1.25 mg/kg (see 16 NON-CLINICAL TOXICOLOGY).

Female patients of childbearing potential treated with Padcev should be advised of the potential risk to the fetus.

### 7.1.2 Breast-feeding

There is no information regarding the presence of enfortumab vedotin in human milk, the effects on the breastfed child, or the effects on milk production. Breastfeeding is not recommended during Padcev treatment and for at least 6 months after the last dose.

### 7.1.3 Pediatrics

**Pediatrics (<18 years of age):** No data are available to Health Canada; therefore, Health Canada has not authorized an indication for pediatric use.

### 7.1.4 Geriatrics

**Geriatrics (≥ 65 years of age):** Of the 720 patients treated with Padcev as a single agent in clinical trials, 452 (63%) were 65 years or older and 170 (24%) were 75 years or older. No overall differences in efficacy were observed between these patients and younger patients (see 10 CLINICAL PHARMACOLOGY, Pharmacokinetics). In the Padcev arm of the EV-301 study, serious adverse events were reported in 40% of patients < 65 (n=106), 51% of patients ≥ 65 and < 75 (n=139), and 49% of patients ≥ 75 (n=51). Adverse events leading to treatment discontinuation were reported in 13%, 18% and 23% of patients < 65, ≥ 65 and < 75 and ≥ 75, respectively.

Of the 564 patients treated with Padcev in combination with pembrolizumab in clinical trials, 391 (69%) were 65 years or older and 144 (26%) were 75 years or older. In the Padcev in combination with pembrolizumab arm of the EV-302 study, serious adverse events were reported in 37% of patients < 65 (n=144), 57% of patients ≥ 65 and < 75 (n=194), and 56% of patients ≥ 75 (n=102). Grade ≥3 events were reported in 61%, 78% and 79% of patients < 65, ≥ 65 and < 75, and ≥ 75, respectively. Adverse events leading to discontinuation of Padcev were reported in 31%, 37% and 36% of patients < 65, ≥ 65 and < 75 and ≥ 75, respectively.

## 8 ADVERSE REACTIONS

### 8.1 Adverse Reaction Overview

The data described in the following section reflect exposure to Padcev from two open-label, randomized, phase 3 studies: EV-301 and EV-302. In EV-301, patients received Padcev 1.25 mg/kg on Days 1, 8 and 15 of a 28-day cycle until disease progression or unacceptable toxicity. In EV-302, patients received Padcev 1.25mg/kg on Days 1 and 8 of a 21-day cycle in combination with pembrolizumab.

#### Study EV-301

EV-301 included 296 patients with unresectable locally advanced or metastatic urothelial cancer who received at least one dose of Padcev 1.25 mg/kg and were previously treated with a PD-1 or PD-L1 inhibitor and a platinum-based chemotherapy. The median duration of exposure to Padcev was 5 months (range: 0.5 to 19.4 months). The median duration of exposure to chemotherapy was 3.5

months (range: 0.2 to 15 months).

Serious adverse events, regardless of causality, occurred in 47% of patients treated with Padcev. The most common serious adverse events were acute kidney injury (6%), malignant neoplasm progression and pneumonia (4% each), urinary tract infection bacterial (3%), diarrhoea, urinary tract infection, and pyrexia (2% each). Grade 3 or higher adverse events, regardless of causality, occurred in 71% of patients treated with Padcev. The most common Grade  $\geq 3$  adverse events ( $\geq 5\%$ ) were rash maculopapular, hyperglycaemia, neutrophil count decreased, fatigue (7% each), anaemia (6%), and decreased appetite (5%). Adverse events, regardless of causality, resulting in death occurred in 7% (21/296) of patients, including malignant neoplasm progression (3%), multiple organ dysfunction syndrome (1%), pneumonia (0.7%), and hepatic dysfunction, septic shock, hyperglycemia, pneumonitis and pelvic abscess (0.3% each).

Adverse events leading to discontinuation occurred in 17% of patients; the most common adverse event ( $\geq 2\%$ ) leading to discontinuation was peripheral neuropathy (2%). Adverse events leading to dose interruption occurred in 61% of patients; the most common adverse events ( $\geq 4\%$ ) leading to dose interruption were peripheral sensory neuropathy (16%), fatigue (6%), neutrophil count decreased (5%), and rash maculopapular (4%). Adverse events leading to dose reduction occurred in 34% of patients; the most common adverse events ( $\geq 2\%$ ) leading to dose reduction were peripheral sensory neuropathy (7%), rash maculopapular (4%), decreased appetite (3%) and fatigue (3%), neutrophil count decreased and neuropathy peripheral (2%).

### **Study EV-302**

The safety of Padcev was evaluated in combination with pembrolizumab in an open-label, randomized, multicenter trial (EV-302) in 440 patients with unresectable locally advanced or metastatic urothelial cancer who received at least one dose of Padcev and pembrolizumab compared to 433 patients who received gemcitabine on Days 1 and 8 and investigator's choice of cisplatin or carboplatin on Day 1 of each 21-day cycle. The median duration of overall exposure was 9.4 months (range: 0.3 to 31.9 months). The median duration of exposure for Padcev was 7 months (range: 0.3 to 31.9 months).

Serious adverse events occurred in 50% of patients treated with Padcev in combination with pembrolizumab. The most common serious adverse events ( $\geq 2\%$ ) were rash (6%), acute kidney injury (5%), pneumonitis/interstitial lung disease (ILD) (4.5%), urinary tract infection (4.3%), diarrhea (3.9%), hemorrhage (2.3%), pneumonia (2.3%), pyrexia (2%) and hyperglycemia (2%).

Seventy three percent of patients had  $\geq$  Grade 3 treatment-emergent adverse events. The most common Grade 3 ( $\geq 5\%$ ) were: rash (15%), peripheral neuropathy (8%), hyperglycemia (7%), anemia (7%), diarrhea (6%), fatigue (6%), urinary tract infection (6%), acute kidney injury (5%), hyponatremia (5%), and neutropenia (5%).

Adverse events, regardless of causality, resulting in death occurred in 4.3% (19/440) of patients, including acute respiratory failure (0.7%), pneumonia (0.5%), and pneumonitis/ILD (0.2%).

Adverse events leading to discontinuation of Padcev occurred in 35% of patients. The most common adverse events ( $\geq 2\%$ ) leading to discontinuation of Padcev were peripheral neuropathy (15%), rash (4.1%) and pneumonitis/ILD (2.3%).

Adverse events leading to dose interruption of Padcev occurred in 73% of patients. The most common adverse events ( $\geq 2\%$ ) leading to dose interruption of Padcev were peripheral neuropathy (22%), rash (16%), diarrhea (5%), fatigue (5%), pneumonitis/ILD (4.8%), hyperglycemia (3.6%), alanine

aminotransferase increased (3%), urinary tract infection (2.7%), pruritus (2.5%), and pyrexia (2%).

Adverse events leading to dose reduction of Padcev occurred in 42% of patients. The most common adverse events ( $\geq 2\%$ ) leading to dose reduction of Padcev were rash (16%), peripheral neuropathy (13%) and fatigue (4.1%).

Adverse events leading to discontinuation of either Padcev or pembrolizumab occurred in 40% of patients. The most common adverse events ( $\geq 2\%$ ) leading to discontinuation of either Padcev or pembrolizumab were peripheral neuropathy (15%), pneumonitis/ILD (4.8%), and rash (4.5%).

## 8.2 Clinical Trial Adverse Reactions

*Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.*

Table 5 summarizes the all grade and Grade  $\geq 3$  treatment emergent adverse events reported in patients in EV-301.

**Table 5: Treatment Emergent Adverse Events Reported in  $\geq 10\%$  (All Grades) in Patients Treated with Padcev in EV-301**

SOC Preferred Term	Padcev N = 296		Chemotherapy N = 291	
	All Grade n (%)	Grade $\geq 3$ n (%)	All Grade n (%)	Grade $\geq 3$ n (%)
<b>Blood and lymphatic system disorders</b>				
Anemia	59 (20)	19 (6)	87 (30)	34 (12)
Neutrophil count decreased	33 (11)	21 (7)	54 (19)	43 (15)
<b>Eye disorders</b>				
Dry eye <sup>1</sup>	71 (24)	2 (0.7)	17 (6)	1 (0.3)
<b>Gastrointestinal disorders</b>				
Nausea	89 (30)	3 (1)	74 (25)	5 (2)
Diarrhea <sup>2</sup>	105 (35)	12 (4)	67 (23)	6 (2)
Vomiting	42 (14)	4 (1)	44 (15)	3 (1)
Constipation	82 (28)	3 (1)	73 (25)	6 (2)
Abdominal Pain <sup>3</sup>	59 (20)	2 (1)	41 (14)	8 (3)
<b>General disorders and administration site conditions</b>				
Fatigue <sup>4</sup>	147 (50)	27 (9)	116 (40)	20 (7)
Pyrexia <sup>5</sup>	65 (22)	7 (2)	42 (14)	0
<b>Infections and infestations</b>				



SOC Preferred Term	Padcev N = 296		Chemotherapy N = 291	
	All Grade n (%)	Grade ≥3 n (%)	All Grade n (%)	Grade ≥3 n (%)
Urinary Tract Infection <sup>6</sup>	49 (17)	19 (6)	38 (13)	10 (3)
<b>Investigations</b>				
Weight decreased	47 (16)	1 (0.3)	20 (7)	0
Aspartate aminotransferase increased	36 (12)	3 (1)	5 (2)	0
<b>Metabolism and nutrition disorders</b>				
Decreased appetite	121 (41)	16 (5)	78 (27)	7 (2)
Hyperglycemia	31 (11)	21 (7)	6 (2)	2 (1)
<b>Musculoskeletal and connective tissue disorders</b>				
Musculoskeletal Pain <sup>7</sup>	74 (25)	7 (2)	101 (35)	15 (5)
<b>Nervous system disorders</b>				
Peripheral neuropathy <sup>8</sup>	149 (50)	15 (5)	99 (34)	8 (3)
Dysgeusia <sup>9</sup>	76 (26)	0	23 (8)	0
<b>Psychiatric disorders</b>				
Insomnia	31 (11)	0	23 (8)	0
<b>Skin and subcutaneous tissue disorders</b>				
Rash <sup>10</sup>	159 (54)	42 (14)	58 (20)	1 (0.3)
Alopecia	139 (47)	0	110 (38)	0
Dry skin	50 (17)	0	11 (4)	0
Pruritus	102 (34)	5 (2)	20 (7)	0
<b>Vascular disorders</b>				
Hemorrhage <sup>11</sup>	51 (17)	8 (3)	37(13)	7 (2)

<sup>1</sup>Includes: blepharitis, conjunctivitis, conjunctivitis allergic, dry eye, eye irritation, keratitis, keratopathy, lacrimation increased, Meibomian gland dysfunction, ocular discomfort, punctate keratitis

<sup>2</sup>Includes: diarrhea, colitis, enterocolitis

<sup>3</sup>Includes: abdominal pain, abdominal pain upper, abdominal pain lower, abdominal discomfort, hepatic pain, abdominal tenderness, gastrointestinal pain

<sup>4</sup>Includes: fatigue, asthenia

<sup>5</sup>Includes: pyrexia, hyperthermia, hyperpyrexia, body temperature increased

<sup>6</sup>Includes: urinary tract infection, urinary tract infection bacterial, urinary tract infection enterococcal, streptococcal urinary tract infection, escherichia urinary tract infection, pyelonephritis acute, escherichia

pyelonephritis, urinary tract infection fungal, cystitis, urinary tract infection staphylococcal, urinary tract infection pseudomonal

<sup>7</sup>Includes: myalgia, arthralgia, back pain, bone pain, pain in extremity, musculoskeletal pain, arthritis, neck pain, noncardiac chest pain, musculoskeletal chest pain, spinal pain, musculoskeletal stiffness, musculoskeletal discomfort

<sup>8</sup>Includes: burning sensation, demyelinating polyneuropathy, dysesthesia, hypoesthesia, muscular weakness, neuralgia, neuropathy peripheral, neurotoxicity, paresthesia, peripheral motor neuropathy, peripheral sensorimotor neuropathy, peroneal nerve palsy, peripheral sensory neuropathy, gait disturbance, polyneuropathy, sensory loss

<sup>9</sup>Includes: dysgeusia, ageusia, hypogeusia

<sup>10</sup>Includes: blister, blood blister, conjunctivitis, dermatitis, dermatitis bullous, dermatitis contact, drug eruption, eczema, erythema, erythema multiforme, exfoliative rash, intertrigo, palmar-plantar erythrodysesthesia syndrome, rash, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pruritic, rash vesicular, skin irritation, skin exfoliation, stomatitis

<sup>11</sup>Includes: hematuria, rectal hemorrhage, gastrointestinal hemorrhage, epistaxis, upper gastrointestinal hemorrhage, tumor hemorrhage, hemoptysis, vaginal hemorrhage, anal hemorrhage, hemorrhagic stroke, urethral hemorrhage, infusion site hemorrhage, conjunctival hemorrhage, hemorrhagic ascites, hemorrhoidal hemorrhage

Table 6 summarizes the all grade and Grade  $\geq 3$  treatment-emergent adverse events reported in patients in EV-302.

**Table 6: Treatment Emergent Adverse Events Reported in  $\geq 10\%$  (All Grades) in Patients Treated with Padcev with pembrolizumab in EV-302**

SOC Preferred Term	Padcev with pembrolizumab N = 440		Chemotherapy N = 433	
	All Grade* n (%)	Grade $\geq 3$ n (%)	All Grade* n (%)	Grade $\geq 3$ n (%)
<b>Blood and lymphatic system disorders</b>				
Anemia	108 (25)	31 (7)	267 (62)	148 (34)
<b>Endocrine disorders</b>				
Hypothyroidism	46 (10)	2 (0.5)	3 (0.7)	0
<b>Eye disorders</b>				
Dry eye <sup>1</sup>	107 (24)	0	9 (2)	0
<b>Gastrointestinal disorders</b>				
Diarrhea <sup>2</sup>	168 (38)	25 (6)	69 (16)	6 (1)
Nausea	116 (26)	7 (2)	178 (41)	12 (3)
Constipation	116 (26)	0	147 (34)	3 (0.7)
Abdominal pain <sup>3</sup>	68 (15)	6 (1)	48 (11)	3 (0.7)
Vomiting	51 (12)	6 (1)	69 (16)	7 (2)

SOC Preferred Term	Padcev with pembrolizumab N = 440		Chemotherapy N = 433	
	All Grade* n (%)	Grade ≥3 n (%)	All Grade* n (%)	Grade ≥3 n (%)
<b>General disorders and administration site conditions</b>				
Fatigue <sup>4</sup>	225 (51)	27 (6)	246 (57)	28 (6)
Pyrexia <sup>5</sup>	79 (18)	3 (0.7)	67 (15)	5 (1)
Edema peripheral	60 (14)	0	48 (11)	1 (0.2)
<b>Infections and infestations</b>				
Urinary Tract Infection <sup>6</sup>	98 (22)	25 (6)	93 (21)	40 (9)
COVID-19 <sup>7</sup>	69 (16)	9 (2)	24 (6)	6 (1)
<b>Investigations</b>				
Weight decreased	145 (33)	16 (4)	38 (9)	1 (0.2)
<b>Metabolism and nutrition disorders</b>				
Decreased appetite	145 (33)	8 (2)	112 (26)	8 (2)
Hyperglycemia	72 (16)	32 (7)	11 (3)	3 (0.7)
<b>Musculoskeletal and connective tissue disorders</b>				
Musculoskeletal Pain <sup>8</sup>	151 (34)	9 (2)	109 (25)	10 (2)
<b>Nervous system disorders</b>				
Peripheral neuropathy <sup>9</sup>	293 (67)	34 (8)	60 (14)	0
Dysgeusia <sup>10</sup>	104 (24)	1 (0.2)	40 (9)	0
<b>Psychiatric disorders</b>				
Insomnia	45 (10)	1 (0.2)	24 (6)	0
<b>Respiratory disorders</b>				
Dyspnea	58 (13)	6 (1)	51 (12)	5 (1)
Cough	54 (12)	0	23 (5)	1 (0.2)
Pneumonitis/ILD <sup>11</sup>	45 (10)	17 (4)	2 (0.5)	2 (0.5)
<b>Skin and subcutaneous tissue disorders</b>				
Rash <sup>12</sup>	297 (68)	64 (15)	64 (15)	0
Pruritus	182 (41)	5 (1)	29 (7)	0
Alopecia	152 (35)	2 (0.5)	34 (8)	1 (0.2)
Dry skin	76 (17)	1 (0.2)	6 (1)	0
<b>Vascular disorders</b>				

SOC Preferred Term	Padcev with pembrolizumab N = 440		Chemotherapy N = 433	
	All Grade* n (%)	Grade ≥3 n (%)	All Grade* n (%)	Grade ≥3 n (%)
Hemorrhage <sup>13</sup>	80 (18)	10 (2)	70 (16)	14 (3)

\* Graded per NCI CTCAE v4.03

<sup>1</sup> Includes: blepharitis, conjunctivitis, conjunctivitis allergic, dry eye, eye irritation, keratitis, keratopathy, lacrimation increased, Meibomian gland dysfunction, ocular discomfort, punctate keratitis

<sup>2</sup> Includes: diarrhea, colitis, enterocolitis

<sup>3</sup> Includes: abdominal pain, abdominal pain upper, abdominal pain lower, abdominal discomfort, hepatic pain, abdominal tenderness, gastrointestinal pain

<sup>4</sup> Includes: fatigue, asthenia

<sup>5</sup> Includes: pyrexia, hyperthermia, hyperpyrexia, body temperature increased

<sup>6</sup> Includes: urinary tract infection, urinary tract infection bacterial, urinary tract infection enterococcal, streptococcal urinary tract infection, escherichia urinary tract infection, pyelonephritis acute, escherichia pyelonephritis, urinary tract infection fungal, cystitis, urinary tract infection staphylococcal, urinary tract infection pseudomonal

<sup>7</sup> Includes: COVID-19, COVID-19 pneumonia

<sup>8</sup> Includes: myalgia, arthralgia, back pain, bone pain, pain in extremity, musculoskeletal pain, arthritis, neck pain, noncardiac chest pain, musculoskeletal chest pain, spinal pain, musculoskeletal stiffness, musculoskeletal discomfort

<sup>9</sup> Includes: dysesthesia, hypoesthesia, muscular weakness, neuralgia, neurotoxicity, paresthesia, peripheral motor neuropathy, peripheral sensorimotor neuropathy, peripheral sensory neuropathy, peroneal nerve palsy, gait disturbance, skin burning sensation

<sup>10</sup> Includes: dysgeusia, ageusia, hypogeusia

<sup>11</sup> Includes: pneumonitis, immune-mediated lung disease, interstitial lung disease, lung opacity, autoimmune lung disease, organizing pneumonia, pulmonary fibrosis, pulmonary toxicity, sarcoidosis, acute respiratory distress syndrome, alveolitis

<sup>12</sup> Includes: blister, conjunctivitis, dermatitis, dermatitis bullous, dermatitis contact, dermatitis exfoliative generalized, drug eruption, erythema, eczema, erythema multiforme, exfoliative rash, intertrigo, palmar-plantar erythrodysesthesia syndrome, pemphigoid, rash, rash erythematous, rash macular, rash maculo-papular, rash papular, rash pruritic, rash vesicular, skin irritation, skin exfoliation, stasis dermatitis, stomatitis

<sup>13</sup> Includes: hematuria, rectal hemorrhage, gastrointestinal hemorrhage, epistaxis, upper gastrointestinal hemorrhage, tumor hemorrhage, hemoptysis, vaginal hemorrhage, anal hemorrhage, hemorrhagic stroke, urethral hemorrhage, infusion site hemorrhage, conjunctival hemorrhage, hemorrhagic ascites, hemorrhoidal hemorrhage

### 8.3 Less Common Clinical Trial Adverse Reactions

Other clinically important adverse events, regardless of relationship to Padcev, that occurred in < 10% of recipients of Padcev in EV-301 included:

**Blood and lymphatic disorders:** neutropenia, febrile neutropenia

**Cardiac disorders:** tachycardia

**General disorders and administrative site conditions:** infusion site extravasation, multiple organ dysfunction syndrome

**Infections and infestations:** sepsis

**Monitoring and laboratory tests:** alanine aminotransferase increased

**Respiratory, thoracic, and mediastinal disorders:** pneumonitis/ILD

**Skin and subcutaneous tissue disorders:** skin hyperpigmentation, skin discolouration, pigmentation disorder

Other clinically important adverse events, regardless of relationship to Padcev, that occurred in < 10% of recipients of Padcev in combination with pembrolizumab in EV-302 included:

**Blood and lymphatic disorders:** neutropenia, febrile neutropenia

**Cardiac disorders:** myocarditis, tachycardia

**Endocrine disorder:** hyperthyroidism, adrenal insufficiency, hypophysitis, type 1 diabetes mellitus, thyroiditis

**Eye disorder:** uveitis

**Gastrointestinal disorder:** pancreatitis

**General disorders and administrative site conditions:** infusion site extravasation

**Hepatobiliary disorders:** hepatitis, immune-mediated hepatitis, sclerosing cholangitis

**Immune system disorder:** hypersensitivity, sarcoidosis

**Infections and infestations:** sepsis and septic shock

**Musculoskeletal and connective tissue disorders:** myositis

**Nervous system disorder:** immune-mediated encephalitis, myasthenia gravis

**Renal and urinary disorders:** immune-mediated nephritis

**Skin and subcutaneous tissue disorders:** toxic epidermal necrolysis, skin hyperpigmentation, skin discolouration

#### 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

**Table 7: Selected Laboratory Abnormalities Reported in ≥15% (All Grades) or ≥5% (Grade 3-4) of Patients Treated with Padcev in EV-301**

Laboratory Abnormality	Padcev			Chemotherapy		
	N	All Grades n (%)	Grade 3-4 n (%)	N	All Grades n (%)	Grade 3-4 n (%)
<b>Hematology</b>						
Hemoglobin decreased	281	116 (41)	5 (2)	268	137 (51)	26 (10)
Lymphocytes decreased	281	130 (46)	26 (9)	268	124 (46)	34 (13)
Neutrophils decreased	281	68 (24)	11 (4)	268	31 (12)	4 (2)
Platelets decreased	279	61 (22)	0	268	26 (10)	4 (2)
<b>Chemistry</b>						
Phosphate decreased	285	75 (26)	13 (5)	271	56 (21)	12 (4)
Glucose increased (non-fasting)	285	135 (47)	20 (7)	271	112 (41)	13 (5)
Creatinine increased	285	143 (50)	1 (0.4)	271	122 (45)	0
Potassium increased	285	38 (13)	8 (3)	271	48 (18)	4 (2)
Lipase increased	251	43 (17)	16 (6)	257	37 (14)	10 (4)
Sodium decreased	285	92 (32)	19 (7)	271	57 (21)	11 (4)
Alanine aminotransferase increased	281	57 (20)	0	270	20 (7)	1 (0.4)
Aspartate aminotransferase increased	282	133 (47)	2 (0.7)	269	38 (14)	2 (0.7)

**Table 8. Selected Laboratory Abnormalities Reported in ≥15% (All Grades) of Patients Treated with Padcev in Combination with Pembrolizumab in EV-302**

Laboratory Abnormality	Padcev in combination with pembrolizumab		Chemotherapy	
	All Grades <sup>Error!</sup> <i>Reference source not found.</i>	Grade 3-4 <sup>Error!</sup> <i>Reference source not found.</i>	All Grades <sup>Error!</sup> <i>Reference source not found.</i>	Grade 3-4 <sup>Error!</sup> <i>Reference source not found.</i>
	%	%	%	%
<b>Hematology</b>				
Hemoglobin decreased	53	7	89	33
Lymphocytes decreased	58	15	59	17
Neutrophils decreased	30	9	80	50
Platelets decreased	20	2	86	33
<b>Chemistry</b>				
Alanine aminotransferase increased	59	5	49	3
Albumin decreased	39	2	35	0.5
Aspartate aminotransferase increased	75	5	39	3
Calcium decreased	18	0.2	19	1
Calcium increased	21	1	14	0.2
Creatinine increased	71	3	68	3
Glucose increased	66	14	54	5
Phosphate decreased	44	9	36	9
Potassium decreased	26	5	16	3
Potassium increased	24	1	36	4
Sodium decreased	46	13	47	13

1. The denominator used to calculate the rate varied from 407 to 439 based on the number of patients with a baseline value and at least one post-treatment value. Graded per NCI CTCAE v4.03

### 8.5 Post-Market Adverse Reactions

The following adverse reactions have been identified during post-approval use of Padcev. 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.

**Skin and subcutaneous tissue disorders:** epidermal necrosis, Stevens-Johnson syndrome, toxic epidermal necrolysis, symmetrical drug-related intertriginous, flexural exanthema, [see 7 WARNINGS AND PRECAUTIONS].

## 9 DRUG INTERACTIONS

### 9.2 Drug Interactions Overview

Formal drug-drug interaction studies with enfortumab vedotin have not been conducted. Physiologically-based pharmacokinetic modeling was conducted to predict the drug-drug interaction potential of free MMAE.

### 9.3 Drug-Behavioural Interactions

Not applicable.

### 9.4 Drug-Drug Interactions

#### *Effects of Other Drugs on Enfortumab Vedotin*

#### *Physiologically-Based Pharmacokinetic Modeling Predictions:*

*Strong CYP3A Inhibitor:* Concomitant use of enfortumab vedotin with ketoconazole (a combined P-gp and strong CYP3A inhibitor) is predicted to increase unconjugated MMAE  $C_{max}$  by 15% and AUC by 38%, with no change in ADC exposure.

*Strong CYP3A Inducer:* Concomitant use of enfortumab vedotin with rifampin (a combined P-gp and strong CYP3A inducer) is predicted to decrease unconjugated MMAE  $C_{max}$  by 28% and AUC by 53%, with no change in ADC exposure.

#### *Effects of Enfortumab Vedotin on Other Drugs*

Concomitant use of enfortumab vedotin is predicted not to affect exposure to midazolam (a sensitive CYP3A substrate) or digoxin (a P-gp substrate). *In vitro* studies using human liver microsomes indicate that MMAE inhibits CYP3A4/5 but not other CYP450 isoforms. MMAE did not induce major CYP450 enzymes in human hepatocytes.

*In vitro* studies indicate that MMAE is a substrate and not an inhibitor of the efflux transporter P-glycoprotein (P-gp). *In vitro* studies determined that MMAE was not a substrate of breast cancer resistance protein (BCRP), multidrug resistance-associated protein 2 (MRP2), organic anion transporting polypeptide 1B1 or 1B3 (OATP1B1 or OATP1B3), organic cation transporter 2 (OCT2), or organic anion transporter 1 or 3 (OAT1 or OAT3). MMAE was not an inhibitor of the bile salt export pump (BSEP), P-gp, BCRP, MRP2, OCT1, OCT2, OAT1, OAT3, OATP1B1, or OATP1B3 at clinically relevant concentrations.



## 9.5 Drug-Food Interactions

Not applicable as Padcev is administered by IV infusion.

## 9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

## 9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

# 10 CLINICAL PHARMACOLOGY

## 10.1 Mechanism of Action

Enfortumab vedotin is an antibody drug conjugate (ADC) directed against Nectin-4, an adhesion protein located on the surface of most urothelial cancer cells. It is comprised of a fully human IgG1-kappa antibody conjugated to the microtubule-disrupting agent, MMAE, via a protease-cleavable linker. Non-clinical data suggest that the anticancer activity of enfortumab vedotin is due to the binding of the ADC to Nectin-4-expressing cells, followed by internalization of the ADC-Nectin-4 complex, and the release of MMAE via proteolytic cleavage. Release of MMAE disrupts the microtubule network within the cell, subsequently inducing cell cycle arrest and apoptosis, and immunogenic cell death. The combination of enfortumab vedotin with a PD-1 blocking antibody resulted in up-regulation of immune function and increased anti-tumor activity in syngeneic mouse tumor models expressing Nectin-4.

AGS-22M6E, an ADC that is biologically equivalent to enfortumab vedotin, is a high affinity humanized IgG1k monoclonal antibody drug conjugate that binds human Nectin-4 antigen. AGS-22M6E demonstrated dose-dependent cytotoxic activity against Nectin-4 expressing cancer cells *in vitro* and inhibited tumour growth in various human Nectin-4 positive cancer xenograft models.

Pharmacodynamic bridging studies of AGS-22M6E (hybridoma-derived) and enfortumab vedotin (CHO-derived) confirmed comparable binding affinity, cytotoxicity and *in vivo* efficacy between the 2 antibody drug conjugates. In addition, the safety profile and pharmacokinetics of AGS-22M6E and enfortumab vedotin were comparable in cynomolgus monkeys.

## 10.2 Pharmacodynamics

In an exposure-response analysis, a higher exposure was associated with higher incidence of some adverse reactions (e.g., Grade  $\geq 2$  peripheral neuropathy, Grade  $\geq 3$  hyperglycemia). In an exposure-response analysis for efficacy, higher early exposures were associated with increased overall survival (OS), progression free survival (PFS), and objective response rate (ORR) across the entire range of enfortumab vedotin exposures compared to chemotherapy. Dose modifications to manage adverse events after attaining a response did not appear to negatively impact PFS or OS.

### Cardiac Electrophysiology

The effect of enfortumab vedotin on the duration of cardiac ventricular repolarization was evaluated in 17 patients with unresectable locally advanced or metastatic urothelial carcinoma who received enfortumab vedotin on Days 1, 8, and 15 of each 28-day cycle. Based on concentration – QTcF modeling, a population mean change in QTcF interval (change from baseline QTcF; upper 1-sided 95% CI) of 6.17 (10.5) msec was estimated to occur at a geometric mean  $C_{max}$  of 20.1 mcg/mL for the ADC. For MMAE, a population mean change in QTcF interval (upper 1-sided 95% CI) of -3.14 (9.52) msec was

estimated to occur at a geometric mean  $C_{max}$  of 3.94 ng/mL. At the recommended dose of 1.25 mg/kg, enfortumab vedotin had no large effect on QTc prolongation (>20 msec).

### 10.3 Pharmacokinetics

Population pharmacokinetic analysis included data from 748 patients based on three phase 1 studies, one phase 2 study and one phase 3 study. Enfortumab vedotin pharmacokinetics were characterized after single and multiple doses in patients with unresectable locally advanced or metastatic urothelial carcinoma and other solid tumours.

Peak ADC concentrations were observed near the end of intravenous infusion administration [median estimate of 0.03 days (~0.72 hours)] and peak MMAE concentrations were observed approximately 2 days after enfortumab vedotin dosing. After repeat administration of enfortumab vedotin at 1.25 mg/kg on Days 1, 8 and 15 of a 28-day cycle or on Days 1 and 8 of a 21-day cycle, minimal to no accumulation of ADC or unconjugated MMAE was observed. ADC concentrations appeared to reach steady state after 1 cycle for enfortumab vedotin as a single agent and in combination with pembrolizumab. For enfortumab vedotin as a single agent administered in patients with previously treated locally advanced or metastatic urothelial carcinoma, unconjugated MMAE concentrations appeared to reach steady state after 1 cycle. A 31% decline in unconjugated MMAE concentrations was observed at the end of cycle 1 when enfortumab vedotin was administered as a single agent and in combination with pembrolizumab in patients with previously untreated locally advanced or mUC.

**Table 9 - Summary of Enfortumab Vedotin Pharmacokinetic Parameters in Unresectable Locally Advanced or Metastatic Urothelial Cancer**

	<b>ADC Mean (± SD)</b>	<b>Unconjugated MMAE Mean (± SD)</b>
$C_{max}$	28 (6.1) mcg/mL	5.5 (3.0) ng/mL
AUC <sub>0-28d</sub>	110 (26) mcg·d/mL	85 (50) ng·d/mL
$C_{trough,0-28d}$	0.31 (0.18) mcg/mL	0.81 (0.88) ng/mL

$C_{max}$  = maximum concentration, AUC<sub>0-28d</sub> = area under the concentration-time curve from time zero to 28 days,  $C_{trough,0-28d}$  = pre-dose concentration on day 28

#### Absorption:

Padcev is administered as an IV infusion and therefore is immediately and completely bioavailable.

#### Distribution:

The mean estimate of steady-state volume of distribution of ADC was 12.8 L following 1.25 mg/kg of enfortumab vedotin.

*In vitro*, the binding of MMAE to human plasma proteins ranged from 68% to 82%. MMAE is not likely to displace or to be displaced by highly protein-bound drugs. *In vitro* studies indicate that MMAE is a substrate of P-glycoprotein.

#### Metabolism:

A small fraction of MMAE released from enfortumab vedotin is metabolized. *In vitro* data indicate that

the metabolism of MMAE occurs primarily via oxidation by CYP3A4.

### **Elimination:**

The mean clearance (CL) of ADC and unconjugated MMAE in patients was 0.114 L/h and 2.11 L/h, respectively.

ADC elimination exhibited a multi-exponential decline with a half-life of 3.6 days.

Elimination of MMAE appeared to be limited by its rate of release from enfortumab vedotin. MMAE elimination exhibited a multi-exponential decline with a half-life of 2.6 days.

The excretion of MMAE occurs mainly in feces with a smaller proportion in urine. After a single dose of another ADC that contained MMAE, approximately 24% of the total MMAE administered was recovered in feces and urine as unchanged MMAE over a 1-week period. The majority of recovered MMAE was excreted in feces (72%). A similar excretion profile is expected for MMAE after enfortumab vedotin administration.

### **Special Populations and Conditions**

**Race:** Based on population pharmacokinetic analysis, race [69% (519/748) White, 21% (158/748) Asian, 1% (10/748) Black and 8% (61/748) others or unknown] does not have a clinically meaningful effect on the pharmacokinetics of enfortumab vedotin.

**Gender:** Based on population pharmacokinetic analysis, gender [73% (544/748) male] does not have a clinically meaningful effect on the pharmacokinetics of enfortumab vedotin.

**Pediatrics:** Pharmacokinetics of enfortumab vedotin have not been evaluated in children and adolescents <18 years of age.

**Geriatrics:** Population pharmacokinetic analysis indicates that age [range: 24 to 90 years; 60% (450/748) >65 years, 19% (143/748) >75 years] does not have a clinically meaningful effect on the pharmacokinetics of enfortumab vedotin.

**Hepatic Insufficiency:** Avoid use of Padcev in patients with moderate (Child-Pugh B) or severe (Child-Pugh C) hepatic impairment. Based on population pharmacokinetics analysis using data from clinical studies in patients with metastatic UC, there were no significant differences in ADC exposure and a 37% and 16% increase in unconjugated MMAE average concentrations in patients with previously treated and previously untreated locally advanced or mUC, respectively, with mild hepatic impairment (bilirubin of 1 to 1.5 × ULN and AST < ULN, or bilirubin ≤ ULN and AST > ULN, n=65) compared to patients with normal hepatic function. Also, in the Padcev arm of the EV-301 study, 53.6% of patients with mild hepatic impairment and 45.3% of patients with normal hepatic function had serious treatment-emergent adverse events. Enfortumab vedotin has only been studied in a limited number of patients enrolled in single agent and combination studies with moderate hepatic impairment (n=5) or severe hepatic impairment (n=1). The effect of liver transplantation on the pharmacokinetics of ADC or unconjugated MMAE is unknown.

**Renal Insufficiency:** The pharmacokinetics of ADC and unconjugated MMAE were evaluated after the administration of enfortumab vedotin (both as a single agent [n=748] and in combination with pembrolizumab [n=561]) in patients with mild (creatinine clearance; CrCL >60–90 mL/min; n=485), moderate (CrCL 30–60 mL/min; n=573) and severe (CrCL 15–<30 mL/min; n=39) renal impairment. No significant differences in AUC exposure of ADC or unconjugated MMAE were observed in patients with mild, moderate or severe renal impairment compared to patients with normal renal function. The effect of end stage renal disease (CrCL <15 mL/min) with or without dialysis on the pharmacokinetics of

ADC or unconjugated MMAE is unknown.

## **11 STORAGE, STABILITY AND DISPOSAL**

Store Padcev vials refrigerated at 2°C to 8°C (36°F to 46°F) in the original carton. Do not freeze. Do not shake.

## **12 SPECIAL HANDLING INSTRUCTIONS**

Padcev is an antineoplastic product. Follow local handling and disposal procedures.

## PART II: SCIENTIFIC INFORMATION

### 13 PHARMACEUTICAL INFORMATION

#### Drug Substance

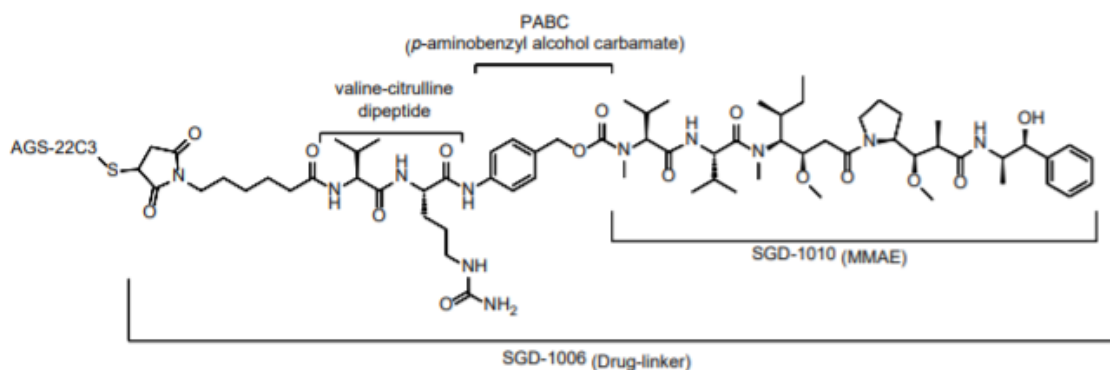
Proper name: enfortumab vedotin

Chemical name: IgG<sub>1</sub>-k AGS-22C3 covalently linked to MMAE

Molecular formula and molecular mass: C<sub>6754</sub>H<sub>10442</sub>N<sub>1750</sub>O<sub>2144</sub>S<sub>46</sub>

Average mass: 151,935 Da

Structural formula:



#### Product Characteristics

Enfortumab vedotin is an antibody-drug conjugate (ADC) comprised of a Nectin-4 directed, fully human Chinese Hamster Ovary (CHO)-expressed IgG1-kappa monoclonal antibody (AGS-22C3) conjugated to the microtubule-disrupting agent monomethyl auristatin E (MMAE) via a protease-cleavable maleimidocaproyl valine-citrulline (vc) linker.

### 14 CLINICAL TRIALS

#### 14.1 Clinical Trials by Indication

##### Previously Untreated Locally Advanced or Metastatic Urothelial Carcinoma

##### Study EV-302

**Table 10 - Summary of Trial Design of EV-302, enfortumab vedotin with pembrolizumab versus Chemotherapy in Patients with Previously Untreated Unresectable Locally Advanced or Metastatic Urothelial Carcinoma**

Study #	Study design	Dosage, route of administration and duration	Study subjects (n)
EV-302	Randomized, open-label, phase 3, multicenter Subjects randomized in 1:1 to receive either enfortumab vedotin in combination with pembrolizumab or platinum-based chemotherapy (gemcitabine with cisplatin or carboplatin)	<p>Patients in arm A received enfortumab vedotin 1.25 mg/kg as an intravenous infusion over 30 minutes on Days 1 and 8 of a 21-day cycle followed by pembrolizumab 200 mg on Day 1 of a 21-day cycle approximately 30 minutes after enfortumab vedotin.</p> <p>Patients in arm B received gemcitabine 1000 mg/m<sup>2</sup> as an intravenous infusion on Days 1 and 8 and investigator's choice of cisplatin 70 mg/m<sup>2</sup> or carboplatin (AUC 4.5 or 5 mg/mL/min according to local guidelines) as an intravenous infusion on Day 1 of each 21-day cycle</p>	<p>Padcev in combination with pembrolizumab (n=442)</p> <p>Chemotherapy (n=444)</p> <p>Total (n=886)</p>

The efficacy of enfortumab vedotin in combination with pembrolizumab was evaluated in a phase 3, open label, randomized, multicenter study that enrolled 886 adult patients with unresectable locally advanced or metastatic urothelial cancer who received no prior systemic therapy for unresectable locally advanced or metastatic disease (See Table 11). Patients with autoimmune disease or a medical condition requiring immunosuppression, active CNS metastases, cardiac symptoms (including congestive heart failure) consistent with New York Heart Association Class III-IV, severe renal impairment, ongoing sensory or motor neuropathy Grade  $\geq 2$ , or uncontrolled diabetes defined as hemoglobin A1C (HbA1c)  $\geq 8\%$  or HbA1c  $\geq 7\%$  with associated diabetes symptoms were excluded from participating in the study.

Patients were randomized 1:1 to receive either enfortumab vedotin in combination with pembrolizumab or platinum-based chemotherapy (gemcitabine with cisplatin or carboplatin). Randomization was stratified by cisplatin eligibility, PD-L1 expression, and presence of liver metastases. Treatment with Padcev and pembrolizumab continued until RECIST v1.1-defined progression of disease or unacceptable toxicity. In the absence of disease progression or unacceptable toxicity, pembrolizumab was continued for a maximum of 35 cycles (up to approximately 2 years).

**Table 11: Summary of Patient Demographics and Baseline Disease Characteristics in EV-302**

	<b>Padcev with pembrolizumab (n=442)</b>	<b>Chemotherapy (n=444)</b>	<b>Total (n=886)</b>
<b>Median Age, years (range)</b>	69 (37, 87)	69 (22, 91)	69
<b>Age Category, n (%)</b>			
< 65 years	144 (32.6)	135 (30.4)	279 (31.5)
65 to < 75 years	196 (44.3)	201 (45.3)	397 (44.8)
≥ 75 years	102 (23.1)	108 (24.3)	210 (23.7)
<b>Gender, n (%)</b>			
Male	344 (77.8)	336 (75.7)	680 (76.7)
Female	98 (22.2)	108 (24.3)	206 (23.3)
<b>Race, n (%)</b>			
White	308 (69.7)	290 (65.3)	598 (67.5)
Asian	99 (22.4)	92 (20.7)	191 (21.6)
Black	3 (0.7)	7 (1.6)	10 (1.1)
Other	32 (7.2)	55 (12.4)	87 (9.8)
<b>Baseline ECOG, n (%)</b>			
0	223 (50.5)	215 (48.4)	438 (49.4)
1	204 (46.2)	216 (48.6)	420 (47.4)
2	15 (3.4)	11 (2.5)	26 (2.9)
<b>Lymph nodes only disease n (%)</b>	103 (23.3)	104 (23.4)	207 (23.4)
<b>Visceral Metastasis, n (%)</b>	318 (71.9)	318 (71.6)	636 (71.8)
<b>Liver Metastasis, n (%)</b>	100 (22.6)	99 (22.3)	199 (22.5)
<b>Documented baseline HbA1c, n (%)</b>			
< 5.7%	205 (46.4)	208 (46.8)	413 (46.6)
<b>Disease Status at randomization, n (%)</b>			
Metastatic urothelial cancer	421 (95.2)	420 (94.6)	841 (94.9)
Locally advanced cancer	21 (4.8)	24 (5.4)	45 (5.1)
<b>Histology type, n (%)</b>			
Urothelial carcinoma (UC) histology	379 (85.7)	373 (84.0)	752 (84.9)
UC mixed squamous differentiation	24 (5.4)	28 (6.3)	52 (5.9)

	<b>Padcev with pembrolizumab (n=442)</b>	<b>Chemotherapy (n=444)</b>	<b>Total (n=886)</b>
UC mixed other histologic variants	26 (5.9)	25 (5.6)	51 (5.8)
<b>Cisplatin-ineligible, n (%)</b>	202 (45.7)	202 (45.5)	404 (45.6)
<b>Cisplatin-eligible, n (%)</b>	240 (54.3)	242 (54.5)	482 (54.4)

The major efficacy outcome measures were overall survival (OS) and progression free survival (PFS) per Response Evaluation Criteria in Solid Tumors (RECIST) v1.1 by blinded independent central review (BICR) while overall response rate (ORR) as assessed by BICR was an additional efficacy outcome measure. The median follow-up time for this study was 17.2 months.

Efficacy results were consistent across all stratified patient subgroups. Findings are summarized in Table 12 and Figures 1 and 2.

**Table 12 - Results of Study EV-302 in Previously Untreated Locally Advanced or Metastatic Urothelial Cancer**

<b>Endpoint</b>	<b>Enfortumab vedotin +pembrolizumab n=442</b>	<b>Gemcitabine + platinum n=444</b>
<b>Overall Survival</b>		
Number (%) of patients with events	133 (30.1)	226 (50.9)
Median in months (95% CI) <sup>a</sup>	31.5 (25.4, NE-)	16.1 (13.9, 18.3)
Hazard ratio <sup>b</sup> (95% CI) <sup>a</sup>	0.468 (0.38, 0.58)	
2-sided p-value <sup>c</sup>	<0.00001	
<b>Progression Free Survival<sup>d</sup></b>		
Number (%) of patients with events	223 (50.5)	307 (69.1)
Median in months (95% CI) <sup>a</sup>	12.5 (10.4, 16.6)	6.3 (6.2, 6.5)
Hazard ratio <sup>b</sup> (95% CI) <sup>a</sup>	0.450 (0.38, 0.54)	
2-sided p-value <sup>c</sup>	<0.00001	
<b>Objective Response Rate (CR + PR)<sup>d, f</sup></b>		
ORR (%) (95% CI) <sup>e</sup>	67.7 (63.1, 72.1)	44.4 (39.7, 49.2)
2-sided p-value <sup>g</sup>	<0.00001	
Complete response rate (%)	127 (29.1)	55 (12.5)
Partial response rate (%)	169 (38.7)	141 (32.0)

NE= Not estimable

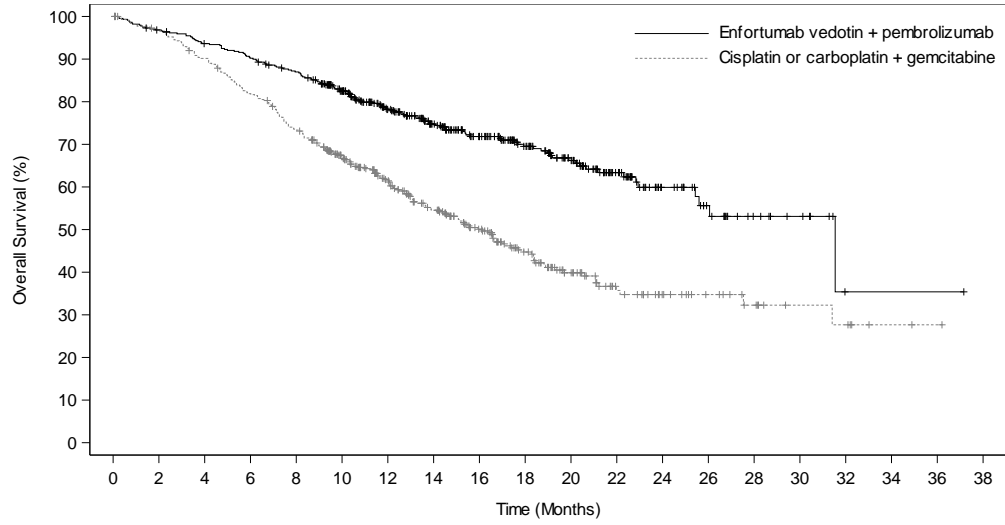
- Based on the complementary log-log transformation method (Collett, 1994).
- Based on stratified Cox proportional hazards model.
- Based on using stratified log-rank test.
- Based on the Clopper-Pearson method (Clopper 1934).



<b>Endpoint</b>	<b>Enfortumab vedotin +pembrolizumab n=442</b>	<b>Gemcitabine + platinum n=444</b>
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- e. Includes only patients with measurable disease at baseline (n=437 for enfortumab vedotin in combination with pembrolizumab, n=441 for gemcitabine plus platinum).
- f. Based on Cochran-Mantel-Haenszel test controlling for stratification factors (cisplatin eligibility, PD-L1 expression, and liver metastases) at randomization.

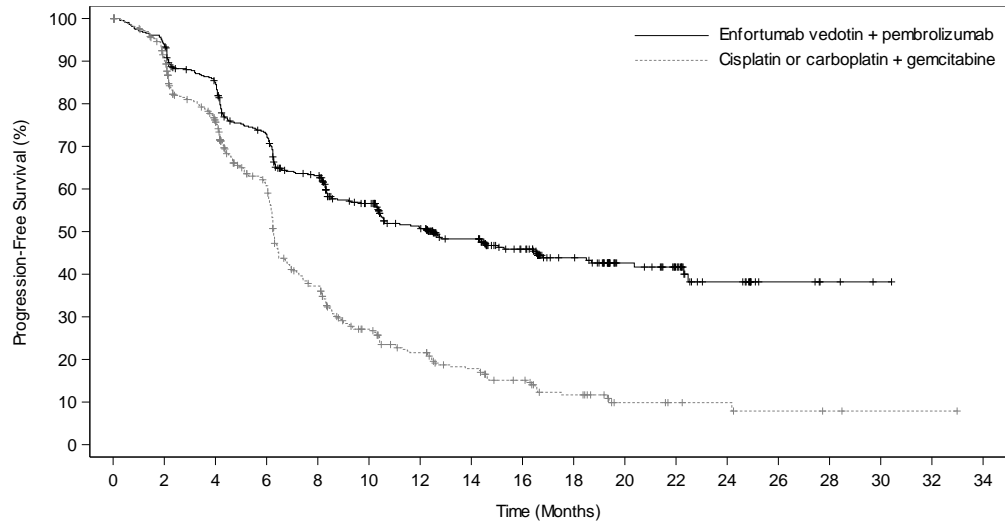
**Figure 1: Kaplan Meier Plot of Overall Survival**



**N at Risk**

Enfortumab vedotin + pembrolizumab	442	426	409	394	376	331	270	222	182	141	108	67	36	22	12	8	1	1	1
Cisplatin or carboplatin + gemcitabine	444	423	393	356	317	263	209	164	125	90	60	37	25	18	12	7	6	2	1

**Figure 2: Kaplan Meier Plot of Progression Free Survival**



**N at Risk**

Enfortumab vedotin + pembrolizumab	442	409	361	303	253	204	167	132	102	73	45	33	17	6	3	1	
Cisplatin or carboplatin + gemcitabine	444	380	297	213	124	78	56	41	30	19	8	6	5	3	2	1	1

## Previously Treated Unresectable Locally Advanced or Metastatic Urothelial Carcinoma

### Study EV-301

**Table 13 - Summary of Trial Design of EV-301, enfortumab vedotin versus Chemotherapy in Patients with Previously Treated Unresectable Locally Advanced or Metastatic Urothelial Carcinoma**

Study #	Study design	Dosage, route of administration and duration	Study subjects (n)
EV-301	Randomized, open-label, phase 3, multicenter  Subjects randomized in a 1:1 ratio to receive enfortumab vedotin or chemotherapy	Padcev (enfortumab vedotin for injection) 1.25 mg/kg IV over approximately 30 minutes on Days 1, 8 and 15 of a 28-day cycle was administered until disease progression or unacceptable toxicity	Padcev (n=301) Chemotherapy (n=307) Total (n=608)

The efficacy of Padcev was evaluated in EV-301, an open-label, randomized, phase 3, multicenter study that enrolled 608 patients with unresectable locally advanced or metastatic urothelial cancer who received prior treatment with a platinum-containing chemotherapy and PD-1 or PD-L1 inhibitor. Patients were randomized 1:1 to receive either Padcev or one of the following chemotherapies as decided by the investigator prior to randomization: docetaxel (38%), paclitaxel (36%) or vinflunine (26%). Randomization was stratified by ECOG PS (0 vs 1), regions of the world (Western EU vs. US vs. rest of world), and presence of liver metastasis (yes or no).

Patients were excluded from the trial if they had active CNS metastases, cardiac symptoms (including congestive heart failure) consistent with New York Heart Association Class III-IV, severe renal impairment, ongoing sensory or motor neuropathy  $\geq$  Grade 2, or uncontrolled diabetes defined as hemoglobin A1C (HbA1c)  $\geq$ 8% or HbA1c  $\geq$ 7% with associated diabetes symptoms.

**Table 14: Summary of Patient Demographics and Baseline Disease Characteristics in EV-301**

	Padcev (n=301)	Chemotherapy (n=307)	Total (n=608)
<b>Median Age, years (range)</b>	68.0 (34.0, 85.0)	68.0 (30.0, 88.0)	68.0 (30.0, 88.0)
<b>Age Category, n (%)</b>			
< 65 years	108 (35.9)	111 (36.2)	219 (36.0)
65 to < 75 years	141 (46.8)	128 (41.7)	269 (44.2)
$\geq$ 75 years	52 (17.3)	68 (22.1)	120 (19.7)
<b>Gender, n (%)</b>			
Male	238 (79.1)	232 (75.6)	470 (77.3)
Female	63 (20.9)	75 (24.4)	138 (22.7)
<b>Race</b>			

	<b>Padcev (n=301)</b>	<b>Chemotherapy (n=307)</b>	<b>Total (n=608)</b>
White	159 (52.8)	155 (50.5)	314 (51.6)
Asian	97 (32.2)	103 (33.6)	200 (32.9)
Black	2 (0.7)	2 (0.7)	4 (0.7)
<b>Baseline ECOG, n (%)</b>			
0	120 (39.9)	124 (40.4)	244 (40.1)
1	181 (60.1)	183 (59.6)	364 (59.9)
<b>Visceral Metastasis, n (%)</b>	234 (77.2)	250 (81.7)	484 (79.7)
<b>Liver Metastasis, n (%)</b>	93 (30.9)	95 (30.9)	188 (30.9)
<b>Type of Prior Platinum-based Treatment Received, n (%)</b>			
Cisplatin-based only	193 (64.1)	190 (61.9)	383 (63.0)
Carboplatin-based only	74 (24.6)	85 (27.7)	159 (26.2)
Both Cisplatin-based and Carboplatin-based	34 (11.3)	31 (10.1)	65 (10.7)

Thirty-four percent of patients had tumors located in the upper tract that included the renal pelvis and ureter. Seventy-six percent of patients had pure transitional cell carcinoma (TCC) histology; 14% had TCC with other histologic variants; and 10% had other tumor histologies including adenocarcinoma and squamous cell carcinoma. The median number of prior therapies was 2 (range 1 to ≥3). For patients with prior therapies in the Padcev arm, 13% had 1 line of prior therapy, 74% had 2 lines, and 13% had ≥3 lines of prior therapy. Additionally, more than 98% of patients in this arm used one checkpoint inhibitor; 55% received a PD-1 inhibitor and 44% received a PD-L1 inhibitor.

The major efficacy outcome measure was overall survival (OS). Progression free survival (PFS) and overall response rate (ORR) as assessed by investigator using RECIST v1.1 were secondary objectives. The median follow-up time for this study was 11.1 months. Findings are summarized in Table 15 and Figures 3-4.

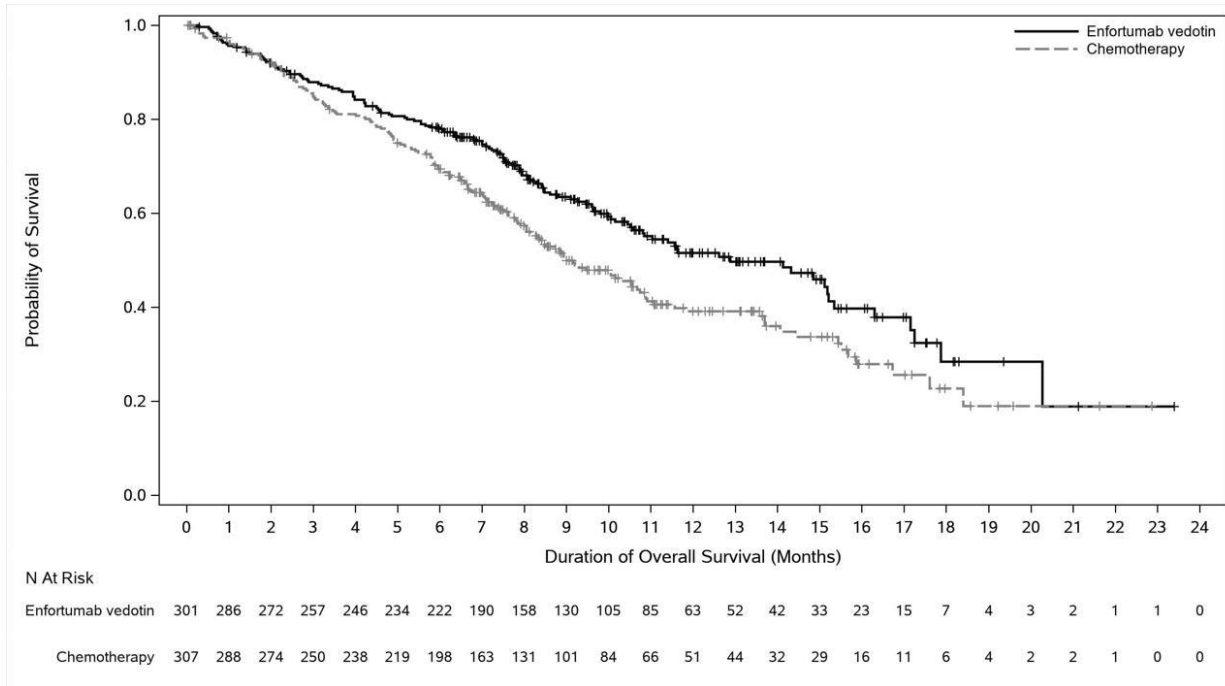
**Table 15 - Results of Study EV-301 in Previously Treated Unresectable Locally Advanced or Metastatic Urothelial Cancer**

Endpoint	Padcev n=301	Chemotherapy n=307
<b>Overall Survival</b>		
Number (%) of patients with events	134 (44.5)	167 (54.4)
Median in months (95% CI)	12.9 (10.6, 15.2)	9.0 (8.1, 10.7)
Hazard ratio (95% CI)	0.70 (0.56, 0.89)	
1-sided p-value	0.00142*	
<b>Progression Free Survival*</b>		
Number (%) of patients with events	201 (66.8)	231 (75.2)
Median in months (95% CI)	5.6 (5.3, 5.8)	3.7 (3.5, 3.9)
Hazard ratio (95% CI)	0.62 (0.51, 0.75)	
1-sided p-value	<0.00001 <sup>‡</sup>	
<b>Overall Response Rate (CR + PR)</b>		
ORR (95% CI)	40.6 (35.0, 46.5)	17.9 (13.7, 22.8)
1-sided p-value	<0.001	
Complete response rate (%)	4.9	2.7
Partial response rate (%)	35.8	15.2

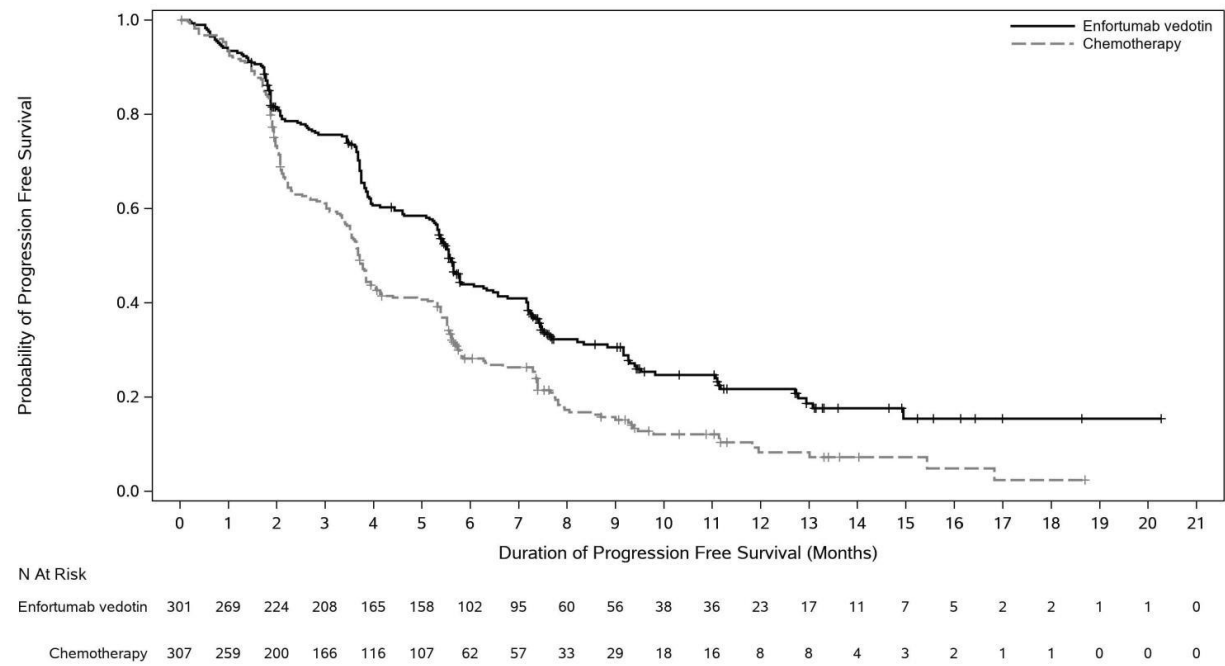
\*Based on stratified log-rank test. Stratification factors were ECOG PS, region and liver metastasis. Pre-determined efficacy boundary = 0.00679.

<sup>‡</sup>Based on stratified log-rank test. Stratification factors were ECOG PS, region and liver metastasis. Pre-determined efficacy boundary = 0.02189.

**Figure 3: Kaplan Meier Plot of Overall Survival**



**Figure 4: Kaplan Meier Plot of Progression Free Survival**



#### **14.4 Immunogenicity**

Comparing the incidences of antibodies between studies or between products may be misleading due to differences in the types, sensitivities and/or specificities of the assays employed.

A total of 590 patients were tested for immunogenicity to enfortumab vedotin 1.25 mg/kg; 15 patients were confirmed to be positive at baseline for anti-therapeutic antibody (ATA), and in patients that were negative at baseline (N=575), a total of 16 (2.8%) were positive post-baseline.

A total of 490 patients were tested for immunogenicity against enfortumab vedotin following enfortumab vedotin in combination with pembrolizumab; 24 patients were confirmed to be positive at baseline for ATA, and in patients that were negative at baseline (n=466), a total of 14 (3.0%) were positive post baseline.

Due to the limited number of patients with antibodies against Padcev, no conclusions can be drawn concerning a potential effect of immunogenicity on pharmacokinetics, pharmacodynamics, efficacy, or safety.

### **15 MICROBIOLOGY**

No microbiological information is required for this drug product.

### **16 NON-CLINICAL TOXICOLOGY**

#### **General Toxicology:**

Good laboratory practice (GLP)-compliant repeat dose toxicity studies were conducted in rats intravenously administered 2, 5, or 10 mg/kg given once weekly for 4 total doses, followed by a 6-week recovery period or 0.5, 2, and 5 mg/kg given once weekly for 13 total doses. GLP-compliant repeat dose toxicity studies were also conducted in cynomolgus monkeys intravenously administered 1, 3 or 6 mg/kg, given once weekly for 4 total doses, followed by a 6-week recovery period. The toxicity profile in monkey was comparable to rat. Mortality was observed in both rats and monkeys at initial exposure levels that were at least 6-fold higher than the human exposure at the recommended clinical dose.

Predominant target organs of toxicity in rats and monkeys include skin and injection site (abrasions, sores, reddened/dry skin, coupled with inflammation, epidermal hyperplasia, hyperkeratosis, ulcers, single-cell necrosis of the epidermis and/or adnexa), bone marrow (hypocellularity and reductions red blood cells, hemoglobin, hematocrit, neutrophils and eosinophils) and male sex organs (testes, epididymis, prostate, mammary gland, and seminal vesicle including increased mitotic figures and seminiferous tubule degeneration and hypospermia in the epididymis). Additional toxicological target organs identified include, mammary gland, lymphoid tissue (decreased cellularity and increased mitotic figures), liver (transient elevations in liver enzymes and single cell increased mitotic figures), eye (minimal increased corneal mitotic figures in the 13-week rat study without correlate in ophthalmological examinations), and gastrointestinal tract (increased epithelial mitotic figures in the intestines).

Dose-dependent skin findings were observed at approximately 2- to 3-fold and 1-fold the human exposure at the recommended clinical dose in rats and cynomolgus monkeys, respectively. Dose-dependent bone marrow findings were observed at approximately 2- to 3-fold the human exposure at the recommended clinical dose. Male reproductive toxicity was observed across all dose level in rats. All findings were reversible following a 6-week recovery period except for testes toxicity. The AUC in rats at 5 mg/kg, the maximum tolerated dose, was approximately 2- to 3-fold higher than the human

exposure at the recommended clinical dose. The AUC in monkey at the NOAEL, 3 mg/kg, was approximately 3-fold higher than the human exposure at the recommended clinical dose.

#### **Carcinogenicity:**

Carcinogenicity studies with enfortumab vedotin or the small molecule cytotoxic agent (MMAE) have not been conducted.

#### **Genotoxicity:**

MMAE was genotoxic in the rat bone marrow micronucleus study through an aneugenic mechanism. This effect is consistent with the pharmacological effect of MMAE as a microtubule-disrupting agent. MMAE was not mutagenic in the bacterial reverse mutation assay (Ames test) or the L5178Y mouse lymphoma forward mutation assay.

#### **Reproductive and Developmental Toxicology:**

##### ***Impairment of Fertility***

Fertility studies with enfortumab vedotin or MMAE have not been conducted. However, results of repeat-dose toxicity studies in rats indicate the potential for enfortumab vedotin to impair male reproductive function and fertility.

Administration of weekly doses of  $\geq 2$  mg/kg (approximately 1-fold the human exposure at the recommended dose) was associated with reduced weights in testis and epididymis. Histopathological findings included degeneration/atrophy and loss of germ cells in seminiferous tubules, abnormal spermatids and abnormal mitotic figures in the testis. Microscopic findings in the epididymis included luminal cell debris, hypospermia and abnormal spermatids. Changes in the testes and epididymis were not reversed following the recovery period.

While not observed with enfortumab vedotin, ovarian effects were observed in repeat dose toxicity studies of other MMAE-containing ADCs. A mild to moderate decrease in, or absence of, secondary and tertiary ovarian follicles was observed in young female cynomolgus monkeys at doses  $\geq 3$  mg/kg weekly for 4 weeks. No changes were observed in primordial follicles. Effects on the secondary and tertiary ovarian follicles showed evidence of recovery 6 weeks after the end of dosing.

##### ***Developmental Toxicity***

In a rat embryo-fetal development toxicity study, enfortumab vedotin resulted in a dose-related (2 or 5 mg/kg) decrease in maternal body weight gain and reduced food consumption at the 5 mg/kg dose level. Clinical observations included fur loss at both dose levels (one animal per dose level) as well as scabbing of the skin on the back or ventral aspect in one animal at the 5 mg/kg level.

Fetal toxicity was noted at both the 2- and 5 mg/kg dose levels (1- and 3-fold the human  $C_{max}$ , respectively) with reduced litter size noted at the 2 mg/kg dose level and complete litter loss in the 5 mg/kg/day dose group. The decrease in the litter size was reflected in an increase in early resorptions. Mean fetal body weight in the surviving fetuses at the 2 mg/kg dose level were reduced compared with control.

Maternal toxicities, embryo-fetal lethality, reduced fetal body weight and structural malformations were observed with enfortumab vedotin at 2 mg/kg (an exposure similar to clinical exposure at the recommended dose) and with MMAE at 0.2 mg/kg ( $C_{max}$  1.1-fold the human  $C_{max}$  at the recommended clinical dose) administered on gestational days 6 and 13. The findings included structural malformations (malrotated hindlimb, absent digit of the forepaw, protruding tongue gastroschisis and agnathia) and skeletal abnormalities (asymmetric sternebrae, fused sternebrae, incomplete ossification



of the sternebrae and misshapen sternebra, unilateral ossification of the thoracic centra, misshapen or fused cervical arch).

**Special Toxicity:**

No special toxicity studies have been conducted.

**Juvenile Animal Studies:**

No juvenile toxicity studies have been conducted.

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

#### PADCEV

#### enfortumab vedotin for injection

Read this carefully before you start taking **Padcev** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug.

Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **Padcev**.

#### What is Padcev used for?

Padcev is a medicine used to treat adults with bladder cancer and cancer of the urinary tract (renal pelvis, ureter or urethra) that has spread or cannot be removed by surgery.

- Padcev may be used with pembrolizumab or
- Padcev may be used alone if you have received chemotherapy that contains platinum and an immunotherapy medicine.

#### Serious Warnings and Precautions

- Skin reactions: Severe and fatal skin reactions including Stevens-Johnson syndrome and toxic epidermal necrolysis have occurred in patients treated with Padcev (see section *What are possible side effects from using Padcev?*)
- High blood sugar: High blood sugar, a serious condition called diabetic ketoacidosis (DKA), and death have occurred in patients with and without diabetes treated with Padcev (see section *What are possible side effects from using Padcev?*)

Padcev may be given in combination with pembrolizumab, read the Patient Medication Information for that product as well. If you have any questions about this medicine, please ask your doctor.

#### How does Padcev work?

Padcev contains enfortumab vedotin. Enfortumab vedotin has 2 parts. One part belongs to a group of medicines called monoclonal antibodies or mAbs. The other belongs to a group of medicines called anti-mitotics. This therapy kills the cancer cell once the antibody finds it.

#### What are the ingredients in Padcev?

Medicinal ingredients: enfortumab vedotin

Non-medicinal ingredients: histidine monohydrochloride monohydrate, polysorbate 20, trehalose dihydrate

**Padcev comes in the following dosage forms:**

Padcev comes in single-use vials containing 20 mg or 30 mg of enfortumab vedotin for injection.

**Do not use Padcev if:**

- You are allergic to enfortumab vedotin or any of the other ingredients of this medicine.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you take Padcev. Talk about any health conditions or problems you may have, including if you:**

- have a history of high blood sugar or diabetes
- have any of the following skin problems, which could be the sign of a reaction:
  - rash or itching that continues to get worse or comes back after treatment
  - skin blistering or peeling
  - painful sores or ulcers in mouth or nose, throat, or skin around your penis or vagina
  - fever or flu-like symptoms or swollen lymph nodes
- are currently experiencing numbness or tingling in your hands or feet
- have eye problems such as very dry eyes and/or blurred vision
- have or have had liver problems
- have or have had kidney problems.

**Other warnings you should know about:****Female Patients:**

- Padcev may harm your unborn baby and should not be used if you are pregnant.
- If you can get pregnant, your healthcare professional should do a pregnancy test before you start treatment with Padcev.
- You should use an effective birth control method during your treatment and for at least 6 months after stopping Padcev.
- It is not known if Padcev passes into your breast milk and could harm your baby. You should not breastfeed during treatment and for at least 6 months after stopping Padcev.

**Male patients with female sexual partners who are pregnant, might be pregnant or could become pregnant:**

- You should use an effective contraception during your treatment and for at least 4 months after stopping Padcev.

**Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

**The following may interact with Padcev:**

- Some medicines may change the amount of the Padcev in your body, such as ketoconazole (anti-fungal).

**How to take Padcev:**

- Padcev will be given to you by a healthcare professional in a healthcare setting.
- Padcev will be given to you by intravenous (IV) infusion into your vein over 30 minutes.
- If you receive Padcev with pembrolizumab, each cycle is 21 days. You will receive Padcev on days 1 and 8 of every cycle.
- If you receive Padcev alone, Padcev will be given to you over a period of 28 days. We call this a cycle. You will receive this medicine once a week for 3 weeks in every cycle. Then you will take a week off before starting the next cycle.
- Your healthcare professional will tell you how many treatment cycles you need.
- You may have blood tests during treatment with this medicine.

**Usual dose:**

The dose of Padcev depends on your body weight. The usual starting dose of this medicine is 1.25 mg for each kilogram of your body weight up to 100 kg. Your healthcare professional may need to pause, stop or lower your dose of this medicine. This can happen if you have certain side effects or if your disease gets worse.

**Overdose:**

It is unlikely that you will receive too much Padcev as you will be closely monitored by healthcare professionals during your infusion.

If you think you have taken too much Padcev contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

**Missed Dose:**

If you miss your appointment to receive Padcev, you should make every effort to receive the missed dose as soon as possible. Doses should be given at least 1 week apart.

**What are possible side effects from using Padcev?**

These are not all the possible side effects you may have when taking Padcev, either alone or in combination with pembrolizumab. If you experience any side effects not listed here, tell your healthcare professional.

Very common

- low red blood cells (anemia)
- feeling sick to your stomach (nausea)
- watery poop (diarrhea)

- throwing up (vomiting)
- feeling tired
- not wanting to eat (decreased appetite)
- bad taste in your mouth
- rash
- hair loss
- weight loss
- high levels of enzymes called aspartate aminotransferase or alanine aminotransferase
- itching
- changes in liver & kidney tests for function
- increased uric acid in blood
- dry skin
- difficulty sleeping
- difficulty pooping (constipation)
- stomach pain
- fever
- urinary tract infection
- pain in the muscles and bones
- bleeding

#### Common

- low numbers of a type of white blood cell called neutrophils (neutropenia)
- low platelet counts
- increased lipase
- infection in the blood
- discoloration or abnormal darkening of the skin (skin hyperpigmentation, skin discoloration, pigmentation disorder)

Taking Padcev with pembrolizumab may cause additional possible side effects. These can include:

#### Very common

- Reduced thyroid gland activity (hypothyroidism)
- Swelling of lower legs or hands (edema peripheral)
- COVID-19 infection caused by a virus called coronavirus (SARS-CoV-2)
- Cough
- Feeling out of breath (dyspnea)
- Low levels of calcium in your blood (hypocalcemia)

#### Common

- Problems with your liver (hepatitis) that can make your eyes and skin turn yellow
- High levels of a hormone made by your thyroid (hyperthyroidism)

- Low levels of hormones made by your adrenal glands (adrenal insufficiency)

Uncommon

- Inflammation of the muscles (myositis)
- Serious muscle weakness (myasthenia gravis)
- Very low white blood cells with a fever (febrile neutropenia)
- Damage to your heart muscle (myocarditis)
- Fast heartbeat while resting (tachycardia)
- Swollen pituitary gland (hypophysitis)
- High levels of sugar in your blood (diabetes mellitus)
- Swelling of the thyroid (thyroiditis)
- Swelling and redness in your eyes (uveitis)
- Swollen pancreas (pancreatitis)
- Liver problems caused by your immune system (immune-mediated hepatitis)
- Painful swelling in your gut (cholangitis sclerosing)
- Swelling caused by problems with your immune system (sarcoidosis)
- Blood infection (sepsis)
- Brain swelling caused by a problem with your immune system (immune-mediated encephalitis)
- Swelling of the kidneys caused by a problem with your immune system (immune-mediated nephritis)
- Allergic reaction (hypersensitivity)

If you take Padcev with pembrolizumab, read the Patient Medication Information for that product as well.

If you get any serious side effects with Padcev when used alone (single agent) or in combination with pembrolizumab (see table below), talk to your healthcare professional. Your health professional may give you other medicines to prevent more severe complications and reduce your symptoms. Your health professional may withhold the next dose of Padcev, reduce the dose of Padcev or stop your treatment with Padcev. Side effects may be very common (may affect more than 1 in 10 people), common (may affect less than 1 in 10 but more than 1 in 100 people), uncommon (may affect less than 1 in 100 but more than 1 in 1,000 people), or rare (may affect less than 1 in 1,000 people).

<b>Serious side effects and what to do about them</b>			
<b>Symptom / effect</b>	<b>Talk to your healthcare professional</b>		<b>Stop taking drug and get immediate medical help</b>
	<b>Only if severe</b>	<b>In all cases</b>	
<b>VERY COMMON (monotherapy and combination therapy)</b>			
<b>Hyperglycemia (high blood sugar):</b> frequent need to urinate, increased thirst, blurred vision		X	

<b>Serious side effects and what to do about them</b>			
<b>Symptom / effect</b>	<b>Talk to your healthcare professional</b>		<b>Stop taking drug and get immediate medical help</b>
	<b>Only if severe</b>	<b>In all cases</b>	
<b>Peripheral neuropathy (damage to nerves):</b> Weakness, numbness and pain in hands and feet		X	
<b>COMMON (monotherapy and combination therapy)</b>			
<b>Cardiac problems (fast heart rate):</b> heart beating faster than usual		X	
<b>Eye problems:</b> dry eye, blurry vision, increased tearing, vision changes		X	
<b>Infusion Site Extravasation (drug leaks outside of the blood vessels):</b> redness, pain, swelling, bruising, infection, or blisters at the infusion site			X
<b>Respiratory symptoms and lung problems (lung inflammation):</b> cough, shortness of breath, chest pain or discomfort		X	
<b>RARE (monotherapy and combination therapy)</b>			
<b>Severe skin reactions (including Stevens-Johnson syndrome, toxic epidermal necrosis):</b> unexplained widespread skin pain, blisters on your skin and mucous membranes, hives, tongue swelling, a red or purple skin rash that spreads, or unexplained shedding of your skin			X

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your healthcare professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

### **Storage:**

Keep out of reach and sight of children.

Padcev will be stored by the healthcare professional at the hospital or clinic. The storage details are as follows:

Do not use this medicine after the expiry date. This date is listed on the carton and vial label after EXP. Your healthcare professional will check this date before you receive this medicine.

Store this medicine at 2°C to 8°C. Do not freeze. Do not shake. Do not expose to sunlight. Do not store any unused portion of the infusion solution for reuse. Any unused medicine or waste material should be disposed of in accordance with local requirements.

### **If you want more information about Padcev:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website [www.Seagen.ca](http://www.Seagen.ca), or by calling 1-833-473-2436.

This leaflet was prepared by Seagen Inc.

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