

## Positive Quality Intervention: Enfortumab Vedotin-ejfv (Padcev) Management for Advanced or Metastatic Urothelial Carcinoma

### Description:

- The purpose of this PQI is to understand the management techniques and interventions related to the utilization of enfortumab vedotin-ejfv.

### Background:

- Enfortumab vedotin-ejfv (EV) is an antibody-drug conjugate that targets Nectin-4 and delivers the microtubule inhibitor monomethyl auristatin E (MMAE) to tumor cells. Nectin-4 is a cell adhesion molecule highly expressed in urothelial carcinoma, which contributes to tumor cell growth and proliferation.<sup>1-4</sup>
- Indication:
  - Locally advanced or metastatic urothelial carcinoma in patients who had previously received a PD-1/PD-L1 inhibitor and platinum-containing chemotherapy, or were ineligible for cisplatin-containing chemotherapy.<sup>1</sup>
- Adverse reactions:<sup>1</sup>
  - Most common (≥20%): Fatigue, peripheral neuropathy, decreased appetite, rash, alopecia, nausea, dysgeusia, diarrhea, dry eye, pruritis, and dry skin.
  - Boxed warning: serious skin reactions including severe and fatal cutaneous adverse reactions, such as Stevens-Johnson syndrome (SJS) and Toxic Epidermal Necrolysis (TEN).

### PQI Process:

- Confirm appropriateness of EV therapy based on indication and patient history
  - Testing for Nectin-4 expression is not required and is not used for treatment decisions
- Confirm initial dose: 1.25 mg/kg (up to a maximum of 125 mg for patients ≥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
- Review adverse events and suggested interventions (see Supplemental Information: Table 1)
  - Severe (Grade 3-4) skin toxicities (14% incidence) included symmetrical drug-related intertriginous and flexural exanthema (SDRIFE), bullous dermatitis, exfoliative dermatitis, and palmar-plantar erythrodysesthesia and need to be evaluated urgently<sup>1</sup>
  - Discontinue treatment if SJS or TEN are confirmed, or if or Grade 4 or recurrent Grade 3 skin reactions occur (most common in first cycle but may occur later in therapy)
- Review dose specific adjustments as required (see Supplemental Information: Table 2)
- Drug interaction considerations<sup>1</sup>: The MMAE portion of EV is metabolized via CYP3A4, and concomitant use of EV with dual P-gp and strong CYP3A4 inhibitors may increase unconjugated MMAE exposure; dose adjustment is typically not required and has not been

studied but this interaction may result in increased toxicities especially pronounced peripheral neuropathy

### Patient-Centered Activities:

- Advise patients that skin toxicities of EV are likely to manifest as dry skin, pruritus, and/or maculopapular rash<sup>1</sup> and they should notify their healthcare team of any signs of acne-like rashes (skin that is scaly, dry, cracking, or inflamed) or skin infections.
- Advise patients that EV can cause hyperglycemia that could progress to diabetic ketoacidosis, even in patients with no history of diabetes, and that they should notify their healthcare team of any unusual weakness or fatigue, increased thirst, frequent urination, or blurred vision.
- Advise patients to monitor for signs/symptoms of interstitial lung disease/pneumonitis and to report any new or worsening cough, shortness of breath, chest pain, or difficulty breathing or wheezing.
- Advise patients to self-monitor for and report symptoms of peripheral neuropathy. Sensory neuropathy (38%) was more common than motor (7%).<sup>1</sup> Patients should report any changes in their sense of touch, such as a burning feeling, pain on the skin or weakness.
  - See [Chemotherapy Induced Peripheral Neuropathy](#) PQI
- Advise patients that EV can cause ocular disorders and they should notify their healthcare team with any changes in vision or pain in their eyes.
- Skin and soft tissue reactions following infusion site extravasation occurred in 1% of patients across single agent trials and 0.3% of patients (2 patients) experienced Grade 3-4 reactions.<sup>1</sup> Symptoms worsened until 2-7 days after infusion and resolved within 1-4 weeks of the symptom peak. Monitor for infusion site extravasation and stop the infusion if it occurs.<sup>1</sup>
- Patient Assistance: [NCODA Financial Assistance Tool](#)

### References:

1. [Padcev® \(enfortumab vedotin-ejfv\) \[prescribing information\]](#).
2. Yu EY, Petrylak DP, O'Donnell PH, et al. Enfortumab vedotin after PD-1 or PD-L1 inhibitors in cisplatin-ineligible patients with advanced urothelial carcinoma (EV-201): a multicentre, single-arm, phase 2 trial. *Lancet Oncol.* 2021;22(6):872-882.
3. Balar AV, McGregor BA, Rosenberg JE, et al. EV-201 Cohort 2: Enfortumab vedotin in cisplatin-ineligible patients with locally advanced or metastatic urothelial cancer who received prior PD-1/PD-L1 inhibitors. *J Clin Oncol.* 2021;39(6\_suppl):394-394.
4. Powles T, Rosenberg JE, Sonpavde GP, et al. Enfortumab vedotin in previously treated advanced urothelial carcinoma. *N Engl J Med.* 2021;384(12):1125-1135.

## Supplemental Information:

Table 1: Selected Adverse Events and Suggested Interventions

Event	Severity/Incidence*	Suggested Intervention	Comments*
<b>Skin Reactions</b>	58% (any Grade) 14% (Grade 3-4)	Fragrance-free moisturizers/ointments, antihistamines, topical or systemic steroids as indicated <sup>5</sup>	Median time of onset for severe skin reactions was 0.6 months (range 0.1 – 8) <sup>1-4</sup>
<b>Hyperglycemia</b>	17% (any Grade) regardless of known hyperglycemia at baseline <sup>1-4</sup> Fatal events occurred in 2 patients Baseline hyperglycemia or BMI $\geq 30$ kg/m <sup>2</sup> were associated with a higher rate of treatment-emergent hyperglycemia <sup>4</sup>	Blood glucose test prior to infusion – as part of basic metabolic panel is appropriate Does not need to be fasting	BMI and elevated A1c correlated to a higher incidence of Grade 3/4 hyperglycemia. <sup>1-4</sup> Patients with baseline A1c $\geq 6.5\%$ should be referred to an appropriate provider for glucose management <sup>1-4</sup> Patients with HbA1c $\geq 8\%$ were excluded from clinical trials
<b>Ocular Toxicity</b>	Ocular disorders including blurred vision, keratitis, limbal stem cell deficiency, etc. – 40% <sup>1-4</sup> Dry eye symptoms – 30% <sup>1-4</sup>	Consider prophylactic artificial tears <sup>1</sup> and consider topical ophthalmic steroids after eye exams <sup>1-4</sup>	Median time to onset for ocular disorders was 1.7 months (range 0 – 30.6) <sup>1-4</sup>
<b>Neuropathy</b>	53% (any Grade) <sup>1-4</sup> Peripheral sensory neuropathy was the most common reason for dose reduction With pembrolizumab: 67% any Grade, 36% Grade 2, 7% Grade 3 <sup>1,6</sup>	Recommend dose reduction as initial strategy to prevent worsening neuropathy Consider use of gabapentin or duloxetine for treatment of sensory neuropathy <sup>†</sup>	The median time to onset of Grade $\geq 2$ for single agent was 4.9 months (range 0.1 – 20). <sup>1-4</sup> Of patients who had data on resolution (N = 296), by time of final evaluation 11% had total resolution, 89% had residual neuropathy. Of those with residual symptoms, 50% had Grade $\geq 2$ <sup>1</sup>
<b>Diarrhea</b>	24-45% (any Grade) <sup>1-4</sup>	Recommend as needed or scheduled anti-diarrheal medications	Grade 4 diarrhea that improves to < Grade 2 within 72 hours with supportive management does not require discontinuation of treatment <sup>4</sup>

\* Data for single agent enfortumab vedotin unless otherwise noted

† Limited data for treatment of motor neuropathy

Table 2: Dose and Adjustments for Adverse Events<sup>1</sup>

Administration	Single agent: IV infusion over 30 minutes on days 1, 8, 15 of a 28-day cycle until progression/toxicity	
Starting dose	1.25 mg/kg up to 125 mg*	
First dose reduction	1 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*	
Renal/hepatic dysfunction	No dose adjustment is required for renal dysfunction No current studies in <u>moderate</u> to <u>severe</u> hepatic dysfunction (total bilirubin >1.5 x ULN and AST any) – consider avoiding	
Adverse Event	Grade/Severity	Dose Modification
Hyperglycemia	Blood glucose > 250 mg/dL	Hold until ≤ 250 mg/dL, then resume at same dose level
Pneumonitis/ Interstitial Lung Disease	2	Hold until Grade ≤ 1, then resume at same dose level or consider reduction by one level
	≥ 3	Permanently discontinue
Peripheral neuropathy	2	For 1 <sup>st</sup> occurrence, hold until Grade ≤ 1, then resume at same dose level. For recurrence, hold until Grade < 1, then resume reduced by one level
	≥ 3	Permanently discontinue
Skin reactions	Persistent or recurrent Grade 2	Consider holding until Grade ≤ 1, then resume at same dose level or reduced by one level
	3	Hold until Grade ≤ 1, then resume at same dose level or reduced by one level
	Suspected SJS or TEN	Immediately hold, consult specialist to confirm diagnosis. If not SJS or TEN, see Grade 2-4 skin reactions
	Confirmed SJS or TEN; Grade 4 or recurrent Grade 3	Permanently discontinue
Other non-hematologic toxicities	3	Hold until Grade ≤ 1, then resume at same dose level or reduced by one level
	4	Permanently discontinue
Hematologic toxicity	3 or 2 thrombocytopenia	Hold until Grade ≤ 1, then resume at same dose level or reduced by one level
	4	Hold until Grade ≤ 1, then resume at same dose level or reduced by one level

\* Based on actual body weight. Dose is capped for patients ≥ 100 kg.