



**Positive Quality Intervention:** Enfortumab Vedotin (Padcev) management for advanced or metastatic urothelial carcinoma

**Description:**

The purpose of this PQI is understand the management techniques and interventions when utilizing enfortumab vedotin.

**Background:**

Enfortumab vedotin is a nectin-4 targeting antibody conjugated to the microtubule inhibitor monomethyl auristatin E (MMAE).<sup>1</sup> Enfortumab vedotin was granted accelerated approval by the FDA for the treatment of advanced or metastatic urothelial carcinoma in patients who have previously received a programmed death receptor (PD-1) or programmed death receptor (PD-L1) inhibitor, and a platinum-based chemotherapy in the neoadjuvant/adjuvant, locally advanced, or metastatic setting.<sup>1</sup> In the pivotal phase II trial, patients were heavily pretreated (50% received  $\geq 3$  prior treatments), and the objective response rate was 44%, including 12% complete responses.<sup>2</sup> Adverse effects were common, and 54% of patients had a grade  $\geq 3$  treatment-related adverse event, but these adverse events were manageable and no single grade  $\geq 3$  adverse event occurred in more than 10% of patients.<sup>2</sup> Treatment-related adverse effects led to dose reduction in 32% of patients and discontinuation in 12% of patients.<sup>2</sup>

**PQI Process:**

Upon order of enfortumab vedotin administration

- Confirm appropriateness of enfortumab vedotin utilizing the EMR
- Review the adverse events Table (#1) on Page 2 with the interventions suggested as needed.
- Review Table (#2) on Page 3 for dose specific adjustments as required
- Drug Interaction Considerations<sup>1</sup>
  - Enfortumab vedotin is metabolized via CYP 3A4, and concomitant use of an antibody-drug conjugate containing MMAE and strong CYP3A4 inhibitors should be considered. Dose adjustment is typically not required.

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**Table 1: Selected Adverse Events and interventions suggested**

| Event           | Severity/Incidence  | Suggested Intervention   | Comments   |
|-----------------|---|--|--|
| Skin Reactions  | 54% (any Grade) <sup>1</sup>  | Fragrance-free moisturizers/ointments<br>Topical steroids as indicated<br>Systemic steroids as indicated                                 | Median time of onset for severe skin reactions was 0.8 months (range 0.2 – 5.3). <sup>1</sup>  |
| Hyperglycemia   | 11% (any Grade) <sup>1</sup> regardless of known hyperglycemia at baseline.<br><br>68% of patients with baseline hyperglycemia did not experience worsening | Blood glucose test prior to infusion<br><br>(If unable: a basic metabolic panel is possible to use).<br><br>Does not need to be fasting. | BMI and elevated A1c correlated to a higher incidence of Grade 3/4 hyperglycemia. <sup>1</sup><br><br>Patients with baseline A1c $\geq$ 8% were excluded from the trial. <sup>1,2</sup><br><br>Patients with baseline A1c $\geq$ 6.5% should be referred to an appropriate provider for glucose management. <sup>1</sup> |
| Ocular Toxicity | Ocular disorders including blurred vision – 46% <sup>1</sup><br><br>Dry eye symptoms – 36% <sup>1</sup>   | Consider prophylactic artificial tears <sup>1</sup><br><br>Consider topical ophthalmic steroids after ophthalmic exams <sup>1</sup>      | Median time to onset for ocular disorders was 1.9 months (range 0.3 – 6.2). <sup>1</sup>   |
| Neuropathy      | 49% (any Grade). <sup>1</sup><br>Peripheral sensory neuropathy was the most common reason for dose reduction.   | Recommend dose reduction as initial strategy<br><br>Consider use of gabapentin/duloxetine  | The median time to onset of Grade $\geq$ 2 was 3.8 months (range: 0.6 – 9.2).<br><br>At the last follow-up in the trial, 19% had complete resolution and 26% had partial improvement. 76% had resolution or ongoing Grade 1 neuropathy.  |
| Diarrhea        | 42% (any Grade) <sup>1</sup>  | Prepare anti-diarrheal medications for patient as needed   |  |

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

|  |   |   |
|--|---|---|
| Administration                           | IV infusion over 30 minutes on days 1, 8, 15 of a 28-day cycle until progression or 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 considerations | No dose adjustment is required for renal dysfunction<br>No current studies in moderate to <u>severe</u> hepatic dysfunction – consider avoiding use in this scenario. <u>Mild</u> hepatic dysfunction does not require an upfront dose reduction. |   |
|  |   |   |
| Adverse Event                            | Grade/Severity  | Dose Modification   |
| Hyperglycemia                            | Blood glucose > 250 mg/dL   | Withhold until ≤ 250 mg/dL, then resume at same dose level.   |
| Peripheral neuropathy                    | 2   | Withhold until Grade ≤ 1, then resume at same dose level. If recurrence, withhold until Grade ≤ 1, then resume and reduce one dose level. |
|  | ≥ 3   | Permanently discontinue   |
| Skin reactions                           | 3   | Withhold until Grade ≤ 1, then resume at same dose level or consider reducing by one dose level   |
|  | 4 or recurrent 3  | Permanently discontinue   |
| Other non-hematologic toxicities         | 3   | Withhold until Grade ≤ 1, then resume at same dose level or consider reducing by one dose level   |
|  | 4   | Permanently discontinue   |
| Hematologic toxicity                     | 3 or Grade 2 thrombocytopenia   | Withhold until Grade ≤ 1, then resume at same dose level or consider reducing by one dose level   |
|  | 4   | Withhold until Grade ≤ 1, then resume and reduce one dose level or discontinue treatment  |

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

**Patient Centered Activities:**

- Advise patients that skin toxicities for enfortumab vedotin are likely to manifest as dry skin, pruritus, and/or maculopapular rash.<sup>1</sup>
  - Severe skin toxicities (10% incidence) included symmetrical drug-related intertriginous and flexural exanthema (SDRIFE), bullous dermatitis, exfoliative dermatitis, and palmar-plantar erythrodysesthesia.<sup>1</sup>
- Advise patients to self-monitor for peripheral sensory neuropathy and motor neuropathy. Sensory neuropathy (44%) was more common than motor (14%).<sup>2</sup>
- Enfortumab vedotin has an NCCN emetic risk category of “Moderate” on the day of treatment and patients should receive anti-emetic medications prior to infusion according to institutional standards.<sup>3</sup>

**References:**

1. Padcev (enfortumab vedotin- ejfv) [Prescribing Information]. Bothell, WA: Seattle Genetics, Inc.; December 2019.
2. Rosenberg JE, O'donnell PH, Balar AV, et al. Pivotal Trial of Enfortumab Vedotin in Urothelial Carcinoma After Platinum and Anti-Programmed Death 1/Programmed Death Ligand 1 Therapy. *J Clin Oncol.* 2019;37(29):2592-2600.
3. National Comprehensive Cancer Network Clinical Practice Guidelines in Oncology. Antiemesis. Version 1.2020. February 19, 2020.

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