



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.

Background: Enfortumab vedotin is a nectin-4 targeting antibody conjugated to the microtubule inhibitor monomethyl auristatin E (MMAE). Enfortumab vedotin is approved by the FDA as single agent for the treatment of advanced or metastatic urothelial carcinoma in patients who: 1) previously received a programmed death receptor (PD-1) or programmed death receptor ligand (PD-L1) inhibitor and a cisplatin-containing chemotherapy in the neoadjuvant/adjuvant, locally advanced, or metastatic setting, or 2) are cisplatin-ineligible and have received at least one prior line of therapy. 1 More recently, the FDA expanded the approval for use in combination with pembrolizumab for patients with locally advanced or metastatic urothelial carcinoma who are ineligible for cisplatin-containing chemotherapy based on results of the phase Ib/II EV-103/KEYNOTE-869 trial.^{1,2} In cohort 1 of the pivotal open-label phase II trial EV-201, patients were heavily pretreated and all had prior cisplatin treatment (50% received >3 prior treatments), and the objective response rate was 44%, including 12% complete responses.³ Adverse effects were common, and 54% of patients had a Grade ≥ 3 treatmentrelated adverse event, but these adverse events were manageable and no single Grade ≥ 3 adverse event occurred in more than 10% of patients.³ Treatment-related adverse effects led to dose reduction in 32% of patients and discontinuation in 12% of patients.³ Cohort 2 of EV-201, published later, demonstrated the benefit of enfortumab vedotin specifically in patients who had not received cisplatin prior, with 52% of patients achieving an objective response and 20% with complete response. The phase III EV-301 trial confirmed the benefit of enfortumab vedotin compared to chemotherapy after treatment with cisplatin followed by immunotherapy (median overall survival, 12.88 vs. 8.97 months; hazard ratio for death, 0.70; 95% confidence interval, 0.56 to 0.89; P=0.001 with comparable incidence of treatment-emergent adverse events between groups (93.9% in the enfortumab vedotin group and 91.8% in the chemotherapy group).⁵ In EV-103, 45 patients between the dose escalation phase and dose expansion cohort A with cisplatin-ineligible disease and untreated locally advanced or metastatic urothelial cancer received enfortumab vedotin plus pembrolizumab until progression or toxicity.² After a median of 9 cycles, the objective response rate was 73.3% with a complete response rate of 15.6%.² The median overall survival and duration of response were 26.1 months and 25.6 months, respectively.² Some adverse events, such as peripheral neuropathy, occurred more often in combination treatment with pembrolizumab when compared to trials of enfortumab vedotin alone.¹

PQI Process: Upon order of enfortumab vedotin administration

- Confirm appropriateness of enfortumab vedotin utilizing the EMR
- Review adverse events and interventions suggested as needed (see Supplemental Information: Table 1)
- Review dose specific adjustments as required (see Supplemental Information: Table 2)
- Drug interaction considerations¹
 - Enfortumab vedotin is metabolized via CYP3A4, and concomitant use of an antibody-drug conjugate containing MMAE and dual P-gp and strong CYP3A4 inhibitors should be considered; dose adjustment is typically not required but may result in increased toxicities

Patient-Centered Activities:

• Advise patients that skin toxicities for enfortumab vedotin are likely to manifest as dry skin, pruritus, and/or maculopapular rash¹

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- Severe (Grade 3-4) skin toxicities (12% incidence) included symmetrical drug-related intertriginous and flexural exanthema (SDRIFE), bullous dermatitis, exfoliative dermatitis, and palmar-plantar erythrodysesthesia and need to be evaluated urgently¹
- o Boxed warning for Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis
 - Most common in first cycle but may occur later in therapy
- Advise patients to self-monitor for and report peripheral sensory neuropathy and motor neuropathy. Sensory neuropathy (40%) was more common than motor (7%)¹
 - o See Chemotherapy Induced Peripheral Neuropathy PQI
- In combination with pembrolizumab: in EV-103/KEYNOTE-869, pembrolizumab was administered approximately 30 minutes after the end of enfortumab vedotin and this administration sequence is listed in the full prescribing information. This may help delineate identification of patients who develop an infusion reaction to enfortumab vedotin versus pembrolizumab. 1,2
- Skin and soft tissue reactions following infusion site extravasation occurred in 1.5% of patients across single agent trials and 0.3% of patients experienced Grade 3-4 reactions. 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.
- Patient Assistance: NCODA Financial Assistance Tool

References:

- 1. Padcev® (enfortumab vedotin- ejfv) [Prescribing Information].
- 2. Hoimes CJ, Flaig TW, Milowsky MI, et al. Enfortumab Vedotin Plus Pembrolizumab in Previously Untreated Advanced Urothelial Cancer. *J Clin Oncol.* 2023;41(1):22-31.
- 3. 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.
- 4. 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. *JCO*. 2021;39(6_suppl):394-394.
- 5. 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* |
|----------------------|---|--|--|
| Skin Reactions | 56% (any Grade) ¹ | Fragrance-free moisturizers/ointments, antihistamines, topical or systemic steroids as indicated | Median time of onset for severe skin reactions was 0.7 months (range 0.1 – 6) ¹ |
| Hyperglycemia Ocular | 14% (any Grade) regardless of known hyperglycemia at baseline¹ Baseline hyperglycemia or BMI ≥30 kg/m² were associated with a higher rate of treatment-emergent hyperglycemia⁵ Ocular disorders including | Blood glucose test prior to infusion – as part of basic metabolic panel is appropriate Does not need to be fasting Consider prophylactic artificial | BMI and elevated A1c correlated to a higher incidence of Grade 3/4 hyperglycemia.¹ Patients with baseline A1c ≥ 6.5% should be referred to an appropriate provider for glucose management¹ Patients with HbA1c ≥8% were excluded from clinical trials Median time to onset for ocular |
| Toxicity | blurred vision, keratitis, limbal stem cell deficiency, etc. – 40% ¹ Dry eye symptoms – 34% ¹ | tears ¹ and consider topical ophthalmic steroids after eye exams ¹ | disorders was 1.6 months (range 0 – 19) ¹ |
| Neuropathy | 53% (any Grade) ¹ Peripheral sensory neuropathy was the most common reason for dose reduction | Recommend dose reduction as initial strategy to prevent worsening neuropathy | The median time to onset of Grade ≥ 2 for single agent was 4.9 months (range $0.1-20$). By time of final evaluation: 14% had total resolution, 46% partial improvement, 40% no improvement. Of |

| | With pembrolizumab: 65% any Grade, 45% Grade 2, | Consider use of gabapentin or duloxetine for treatment of | the 86% with residual symptoms, 51% had Grade > 2 ¹ |
|----------|---|---|---|
| | 3.3% Grade 3 ^{1,2} | sensory neuropathy [†] | nau Grauc ≥ 2 |
| Diarrhea | 24-45% (any Grade) ^{1,5} | Recommend as needed anti- diarrheal medications | Grade 4 diarrhea that resolves to Grade ≤ 2 within 72 hours with supportive |
| | | | management does not require discontinuation ⁵ |

^{*} Data for single agent enfortumab vedotin unless otherwise noted † Limited data for treatment of motor neuropathy

Table 2: Dose Adjustments for Adverse Events¹

| Administration | Single agent: IV infusion over 30 minutes on days 1, 8, 15 of a 28-day cycle until | | | |
|---|--|--|--|--|
| 110111111111111111111111111111111111111 | progression/toxicity | | | |
| | | h pembrolizumab: IV infusion over 30 minutes on days 1 and 8 of a 21-day | | |
| | cycle until progression/toxicity. Pembrolizumab should be administered over 30 minutes on day 1 | | | |
| | of each cycle approximately 30 minutes following the end of the enfortumab vedotin infusion. | | | |
| 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 | No dose adjustment is required for renal dysfunction | | | |
| 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 | Hold until \leq 250 mg/dL, then resume at same dose level | | |
| | > 250 mg/dL | | | |
| Peripheral neuropathy | | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one level | | |
| | ≥ 3 | Permanently discontinue | | |
| Skin reactions | 3 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one level | | |
| | 4 or recurrent 3 | Permanently discontinue | | |
| Other non-hematologic | 3 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one level | | |
| toxicities | 4 | Permanently discontinue | | |
| Hematologic toxicity | 3 or 2 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one level | | |
| | 3 OI 2 | itola antii Grade _ 1, then resume at same dose level of reduced by one level | | |
| | thrombocytopenia | arold until Grade _ 1, then resume at same dose level of reduced by one level | | |
| | thrombocytopenia | Hold until Grade ≤ 1, then resume at same dose level or reduced by one level | | |
| Pneumonitis | thrombocytopenia | | | |
| Pneumonitis | thrombocytopenia 4 2 | 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