

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 a nectin-4 targeting antibody conjugated to the microtubule inhibitor monomethyl auristatin E (MMAE).¹ EV is approved by the FDA as single agent for the treatment of locally advanced or metastatic (LA/m) 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 Clinical trials ranging from phase IB to III conducted over the past decade, including EV-201, EV-301, EV-103/KEYNOTE-869, and EV-302/KEYNOTE-A39 consistently demonstrated survival benefits in patients treated with enfortumab vedotin, first as monotherapy and later combined with pembrolizumab, compared to chemotherapy.²⁻⁶ Enfortumab vedotin is now also approved in combination with pembrolizumab as initial treatment for LA/m urothelial cancer. Use of this combination treatment is discussed in another PQI: <u>Positive Quality Intervention</u>: <u>Enfortumab Vedotin-ejfv (Padcev®) and Pembrolizumab (Keytruda®) Management for Advanced or Metastatic Urothelial Carcinoma</u>

PQI Process: Upon order of enfortumab vedotin administration

- Confirm appropriateness of enfortumab vedotin utilizing the EMR
 - Testing for nectin-4 or PD-L1 expression is not required and is not used for treatment decisions
- 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
 - The MMAE portion of EV is metabolized via CYP3A4, and concomitant use of an antibodydrug conjugate containing MMAE with dual P-gp and/or strong CYP3A4 inhibitors should be considered; dose adjustment is typically not required and has not been studied but this interaction may result in increased toxicities

Patient-Centered Activities:

- Administer appropriate anti-emetics for pre-medication. Across trials, fewer than 20% of patients treated with enfortumab vedotin experienced vomiting.¹ Among patients who had vomiting, < 5% had severe (Grade 3-4) vomiting.³
- Advise patients that skin toxicities for enfortumab vedotin are likely to manifest as dry skin, pruritus, and/or maculopapular rash¹
 - 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 urgently¹
 - Enfortumab vedotin has a boxed warning for Stevens-Johnson Syndrome (SJS) and Toxic Epidermal Necrolysis (TEN)
 - Discontinue treatment if SJS or TEN are confirmed, or if or Grade 4 or recurrent Grade 3 skin reactions occur

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- Most common in first cycle but may occur later in therapy
- Advise patients to self-monitor for and report symptoms of peripheral neuropathy. Sensory neuropathy (38%) was more common than motor (7%).¹ EV-pembrolizumab combination has shown a higher incidence of peripheral neuropathy compared to EV monotherapy (67% versus 53%, respectively).¹
 - o See Chemotherapy Induced Peripheral Neuropathy PQI
- 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.¹ 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.¹
- Patient Assistance: <u>NCODA Financial Assistance Tool</u>

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.

 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.

5. Powles T, Rosenberg JE, Sonpavde GP, et al. Enfortumab vedotin in previously treated advanced urothelial cancer. N Engl J Med. 2021;384(12):1125-1135.

6. Powles T, Valderrama BP, Gupta S, et al. Enfortumab vedotin and pembrolizumab in untreated advanced urothelial cancer. N Engl J Med. 2024;390(10):875-888.

7. Lacourture ME, Patel AB, Rosenberg JE, O'Donnell PH. Management of Dermatologic Events Associated with the Nectin-4-directed Antibody-Drug Conjugate Enfortumab Vedotin. Oncologist. 2022;27(3):e223-e232.

Supplemental Information:

| Event | Severity/Incidence* | Suggested Intervention | Comments* |
|-----------------|---|---|---|
| Skin Reactions | 58% (any Grade), 14% Grade 3-4 ^{1,3-5} | Fragrance-free moisturizers/ointments, antihistamines, topical or systemic steroids as indicated ⁷ | Median time of onset for severe skin reactions was 0.6 months (range $0.1 - 8$) ^{1,3-5} |
| Hyperglycemia | 17% (any Grade) regardless of known hyperglycemia at baseline ^{1,3-5} Fatal events occurred in 2 patients Baseline hyperglycemia or BMI \geq 30 kg/m ² were associated with a higher rate of treatment-emergent hyperglycemia ⁵ | 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. ^{1,3-5} Patients with baseline A1c \geq 6.5% should be referred to an appropriate provider for glucose management ^{1,3-5} Patients with HbA1c \geq 8% were excluded from clinical trials |
| Ocular Toxicity | Ocular disorders including blurred vision, keratitis, limbal stem cell deficiency, etc. $-40\%^{1,3-5}$ Dry eye symptoms $-30\%^{1,3-5}$ | Consider prophylactic artificial tears ¹ and consider topical ophthalmic steroids after eye exams ^{1,3-5} | Median time to onset for ocular disorders was 1.7 months (range $0 - 30.6$) ^{1,3-5} |
| Neuropathy | 53% (any Grade) ^{1,3-5} Peripheral sensory neuropathy was the most common reason for dose reduction | Recommend dose reduction as initial strategy to prevent worsening neuropathy Consider use of gabapentin or duloxetine for treatment of sensory neuropathy [†] | The median time to onset of Grade ≥ 2 for single agent was 4.9 months (range $0.1 - 20$). ^{1,3-5} Of patients who had data on resolution (N = 296), by time of final evaluation 11% had total resolution, 89% had residual neuropathy. Of those |

^{3.} 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.

| | With pembrolizumab: 67% any Grade, 36% Grade 2, 7% Grade 3 ^{1,2} | | with residual symptoms, 50% had Grade $\geq 2^1$ |
|----------|---|---|--|
| Diarrhea | 24-45% (any Grade) ^{1,3-5} | 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 ⁵ |

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

| Table 2: Dose and Ad | ljustments for | Adverse Events ¹ |
|----------------------|----------------|-----------------------------|
|----------------------|----------------|-----------------------------|

| Administration | Single agent: IV in | fusion 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 | | |
| Renal/nepatic uysiunction | No dose adjustment is required for renar dysfunction No current studies in <u>moderate</u> to <u>severe</u> hepatic dysfunction (total bilirubin >1.5 x ULN an | | |
| | AST any) – consider avoiding | | |
| | | | |
| Adverse Event | Grade/Severity | Dose Modification | |
| Hyperglycemia | Blood glucose | Hold until $\leq 250 \text{ mg/dL}$, then resume at same dose level | |
| 11ypergrycenna | > 250 mg/dL | 250 mg/uL, then resume at same dose level | |
| Pneumonitis/Interstitial | 230 mg/dL | Hold until Grade \leq 1, then resume at same dose level or consider | |
| Lung Disease | 2 | reduction by one level | |
| Lung Disease | ≥ 3 | Permanently discontinue | |
| | <u> </u> | | |
| Peripheral neuropathy | 2 | For 1^{st} 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 | Consider holding until Grade ≤ 1 , then resume at same dose level or | |
| | recurrent Grade 2 | reduced by one level | |
| | 3 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one | |
| | | level | |
| | Suspected SJS or | Immediately hold, consult specialist to confirm diagnosis. If not SJS or | |
| | TEN | TEN, see Grade 2-4 skin reactions | |
| | Confirmed SJS or | Permanently discontinue | |
| | TEN; Grade 4 or | | |
| | recurrent Grade 3 | | |
| Other non-hematologic | 3 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one | |
| toxicities | | level | |
| | 4 | Permanently discontinue | |
| Hematologic toxicity | 3 or 2 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one | |
| | thrombocytopenia | | |
| | 4 | Hold until Grade ≤ 1 , then resume at same dose level or reduced by one | |
| | | level | |
| * Pagad on actual body wai | 1. D 1 | | |

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