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Study EV-302: A 3-Arm, Open-Label, Randomized Phase 3 Study of Enfortumab Vedotin Plus Pembrolizumab and/or Chemotherapy, Versus Chemotherapy Alone, in Untreated Locally Advanced or Metastatic Urothelial Cancer

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Unmet Need for Treatment of Locally Advanced/Metastatic Urothelial Cancer

- Bladder cancer, the most common form of urothelial cancer (UC), is estimated to kill nearly 200,000 patients globally on an annual basis, including more than 65,000 in Europe^{1,2}
- The 5-year relative survival rate for distant metastatic disease is approximately 5%³
- Cisplatin-based chemotherapy is the standard of care for locally advanced (la)/metastatic (mUC) in the first-line setting for eligible patients⁴. However, more than 50% of patients are cisplatin-ineligible⁵
- In the US and Europe, first-line use of programmed cell death protein-1 (PD-1)/programmed cell death ligand-1 (PD-L1) inhibitors is limited to cisplatin-ineligible patients with high PD-L1 expression. Additionally, the US approval includes platinum-ineligible, first-line patients.
- In Dec 2019, US FDA granted accelerated approval for enfortumab vedotin monotherapy in patients who previously received prior PD-1/PD-L1 inhibitors and platinum-containing chemotherapy in the neoadjuvant/adjuvant or la/metastatic setting (EV-201 Cohort 1)
- The FDA has granted Breakthrough Therapy Designation to enfortumab vedotin + pembrolizumab for the treatment of la/mUC in cisplatin-ineligible patients in the first-line setting based on data from the ongoing phase 1b/2 study EV-103
- Preliminary results from cisplatin-ineligible patients treated with enfortumab vedotin + pembrolizumab in the first-line setting showed an objective response rate (ORR) of 73.3%, median progression-free survival (PFS) of 12.3 months, and median overall survival (OS) not yet reached
- The safety profile was manageable and no new safety signals were identified⁶
- Enfortumab vedotin + pembrolizumab activity was seen regardless of PD-L1 expression⁶
- The ongoing, pivotal, randomized EV-103 Cohort K will further evaluate enfortumab vedotin + pembrolizumab versus enfortumab vedotin monotherapy in cisplatin-ineligible patients in the first-line setting

Enfortumab Vedotin is an Investigational Antibody-Drug Conjugate Directed at Nectin-4

- Enfortumab vedotin consists of a Nectin-4 directed fully human monoclonal antibody and the microtubule-disrupting agent monomethyl auristatin E (MMAE), conjugated by a protease-cleavable linker.
- Nectin-4 is a transmembrane cell adhesion molecule expressed in multiple tumor types, including UC⁸
- In the EV-201 monotherapy clinical trial:
- 100% of the UC patient tumor samples tested expressed Nectin-4°
- Activity was seen regardless of Nectin-4 and PD-L1 expression⁹

Rationale for Combining MMAE-ADC + Pembrolizumab

- Enfortumab vedotin and pembrolizumab each have single agent activity in la/mUC
- Preclinical studies show that antibody-drug conjugates (brentuximab vedotin, ladiratuzumab vedotin, and tisotumab induce immunogenic cell death and may enhance
- vedotin)¹⁰⁻¹³ linked to MMAE antitumor immunity
- © 2020 Seattle Genetics, In Antibody-drug conjugates are investigational agents, and their safety and efficacy have not been established.
- Clinical data suggests the combination of enfortumab vedotin + pembrolizumab may have the potential to induce greater antitumor activity in la/mUC compared to either agent alone

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Merck & Co. CD is an employee of and has an ownership interest in Seattle Genetics. JS is an employee of Astellas Pharma. RK is an employee of and has an ownership interest in Merck &

EV-302 Study Design and Rationale

- EV-302 (NCT04223856; EudraCT Number 2019-004542-15) began as a global 3-arm, open-label, randomized phase 3 study evaluating the efficacy and safety of the following treatment arms in patients with unresectable, previously untreated la/mUC:
- Arm A: Enfortumab vedotin + pembrolizumab, or
- Arm C: Enfortumab vedotin + cisplatin or carboplatin + pembrolizumab, versus

(maximum of 6 cycles each)

- Arm B: Gemcitabine + cisplatin or carboplatin
- Study drugs were administered at the following doses:
- Enfortumab vedotin: 1.25 mg/kg (no maximum # of cycles)
- Pembrolizumab: 200 mg (maximum of 35 cycles)
- Gemcitabine: 1000 mg/m²
- Cisplatin: 70 mg/m²
- Carboplatin: AUC 4.5 or 5

- Arm C enrollment discontinued in August 2020 per sponsors' decision based on data and the changing landscape:
- Recent outcomes of KEYNOTE-361 and IMvigor130 suggest limited clinical benefit for the triplet combinations of platinum, gemcitabine and PD-1/PD-L1 inhibitors in first-line mUC^{14,15}
- Enfortumab vedotin + pembrolizumab demonstrated rapid and durable activity, promising survival, and tolerable safety in EV-103°
- EV-302 will continue to evaluate the efficacy and safety of enfortumab vedotin + pembrolizumab (Arm A) versus gemcitabine + cisplatin or carboplatin (Arm B)
- Approximately 760 patients will be enrolled in EV-302

Survival Screening **Treatment Randomization** and Baseline **EOT** Follow-Up (3-Week Cycles) Follow-Up Arm A Enfortumab vedotin (Days 1 and 8) + Pembro (Day 1) Survival Tumor tissue 30–37 days Arm B Subsequent collection • ECOG from last Gemcitabine (Days 1 and 8) anticancer Assessment dose of Response + Cisplatin/Carboplatin (Day 1) therapy Stratification study drug assessments • PROs • PROs Arm C Enfortumab vedotin (Days 1 and 8) + Pembro (Day 1) Enrollment + Cisplatin/Carboplatin (Day 1) August 2020

EOT= End of Treatment; Pembro=pembrolizumab; PROs=patient reported outcomes

- Stratification Factors for Randomization: cisplatin eligibility (eligible/ineligible), liver metastases (present/absent), PD-L1 expression (high/low)
- Follow-up until disease progression, death, consent withdrawal, or study closure

Objectives

Primary Objectives

- To compare PFS between the experimental Arm A and the control Arm B per RECIST v1.1 by blinded independent central review (BICR)
- To compare OS between Arm A and Arm B

Secondary Objectives

- To evaluate the ORR, duration of response, and disease control rate between Arm A and Arm B per RECIST v1.1 by BICR and investigator assessment
- To evaluate PFS per investigator assessment between Arm A and
- To assess the impact of study treatment on quality of life (QOL), and symptoms including pain from the subject perspective
- To evaluate the safety profile of each treatment regimen

Acknowledgements

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Response Assessments

- Computed tomography (CT) scans with contrast (unless contraindicated) every 9 weeks (±1 week) from the randomization date for the first 18 months, then every 12 weeks (±1 week) thereafter
- Objective responses will be confirmed per RECIST v1.1
- Assessments will continue until radiologically-confirmed disease progression per RECIST v1.1 as determine by BICR, death, consent withdrawal, or study closure

Eligibility

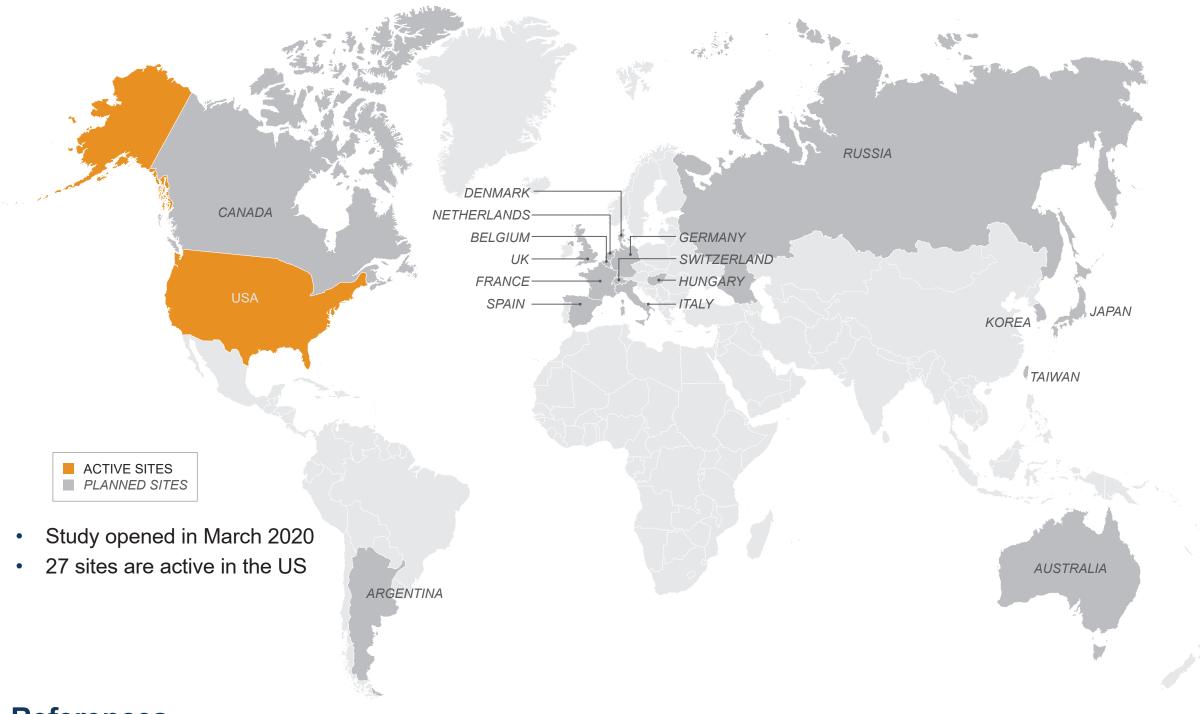
Key Inclusion Criteria

- Histologically documented, unresectable, la/mUC
- Measurable disease by investigator assessment per RECIST v1.1
- ≥18 years of age with >12 weeks life expectancy
- No prior systemic therapy except for neoadjuvant or adjuvant (with cystectomy) chemotherapy with recurrence >12 months after therapy completion
- Adequate hematologic and organ function tests
- ECOG performance status of 0, 1, or 2
- Eligible to receive cisplatin- or carboplatin-based chemotherapy and pembrolizumab by investigator
- Adequate available archival tumor tissue or ability to undergo a new tumor biopsy

Kev Exclusion Criteria

- Previous treatment with enfortumab vedotin, other MMAEbased antibody-drug conjugates, or PD-1/PD-L1 inhibitors
- Ongoing sensory or motor neuropathy ≥ Grade 2
- Active CNS metastases
- Uncontrolled diabetes
- Currently receiving systemic antimicrobial treatment for active infection or high dose steroids
- History of another malignancy within 3 years or evidence of residual disease from previously diagnosed malignancy

Study Sites



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