

Elranatamab (Elrexfio) for the Management of Relapsed/Refractory Multiple Myeloma

Description:

 The purpose of this PQI is to discuss clinical considerations around using elranatamab (Elrexfio) to optimize the outcomes for patients with relapsed/refractory multiple myeloma (RRMM).

Background:

- Elranatamab is a bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engaging antibody. Elranatamab binds BCMA on plasma cells, plasmablasts, and multiple myeloma cells and CD3 on T-cells leading to T-cell activation and cellular lysis of BCMA-expressing cells.
- Elranatamab is FDA approved for:
 - Adult patients with RRMM who have received at least four prior lines of therapy, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody.
- Most common adverse reactions (≥ 20%):
 - Increased: Cytokine release syndrome (CRS), fatigue, injection site reaction, liver function tests (LFTs), diarrhea, upper respiratory tract infection, musculoskeletal pain, pneumonia, rash, cough, nausea, and pyrexia.
 - Decreased: Appetite, lymphocytes, neutrophils, hemoglobin, white blood cells, and platelets.
 - Other (< 10%): Immune effector cell-associated neurotoxicity syndrome (ICANS), and hypogammaglobulinemia.

PQI Process:

<u>REMS</u>

- Elranatamab is only available via REMS involving physicians, nurses, and pharmacists at the clinical facility
 - The goal of the elranatamab REMS program is to mitigate and prevent CRS and ICANS and consists of the following steps:

1. Review the Prescribing Information,	Before starting treatment (initial dose
Prescriber Training Program, and Adverse	increase), fill out the Patient Wallet Card and
Reaction Management Guide.	give it to the patient.
Complete and submit the Knowledge	5. Always report severe CRS and neurologic
Assessment to REMS.	toxicity events, including ICANS, to the REMS.
3. Enroll in the REMS by completing and	Prescribers cannot act as Authorized
submitting the Prescriber Enrollment Form to the	Representatives for elranatamab. Pharmacy and
REMS.	Healthcare Setting certification must be
	completed by a designated Authorized
	Representative.

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Preparing for Administration

- Before medication initiation, conduct baseline labs including CBC, quantitative immunoglobulins, FISH, and bone marrow biopsy
- Maintaining adequate hydration and premedication 1 hour before the first 3 doses with acetaminophen (650 mg), diphenhydramine (25 mg), and dexamethasone PO/IV (20 mg), or any equivalent, is required before each step-up dose of elranatamab
- For CRS management (outlined below), ensure tocilizumab, dexamethasone, and methylprednisolone product availability
- Consider hospitalization for two step-up doses based on CRS risk; prior to hospitalization, patient education about the inpatient stay as well as authorization confirmation for subsequent outpatient care should be completed
- Recommendations for antimicrobial prophylaxis and infection prevention.
 - Bacterial: Prophylaxis includes levofloxacin/ciprofloxacin/cefpodoxime/cefdinir. Start when ANC ≤ 0.5 K/mcL or ANC < 1.0 K/mcL is expected to last ≥ 7 days. Continue until ANC > 0.5 K/mcL for 3 consecutive days without growth factor
 - Fungal: Prophylaxis includes fluconazole or echinocandin for low-risk patients; use posaconazole, voriconazole, isavuconazole, or an echinocandin for high-risk patients.
 Start when ANC < 0.5 K/mcL. Continue until ANC > 0.5 K/mcL
 - HSV/VZV: Start valacyclovir or acyclovir with treatment. Continuation is indefinite irrespective of vaccination status
 - PJP: Start PJP prophylaxis with elranatamab initiation with either TMP-SMZ, dapsone, or atovaquone, and continue while on treatment or until CD4>200
 - Neutropenia: Filgrastim, pegfilgrastim considered in patients with grade 3/4 neutropenia; avoid during periods of highest CRS risk
 - Hypogammaglobulinemia: During 2nd cycle of treatment, start IVIG 400 mg/kg once every 4 weeks until IgG > 400 mg/dL, check IgG levels monthly if patients are on IVIG

Dosing and Adverse Effects

	Week 1: Step-up doses			Weekly Dosing	Biweekly dosing	Monthly dosing
Dosing Calendar Elranatamab (Elrexfio®)	Day 1	Day 4	Day 8	Weekly through	Week 25 q2	Week 49 q4
				week 24	weeks through	weeks
					week 48	
	12 mg	36 mg	76 mg	76 mg	76 mg	76 mg
	0.3 mL SQ	0.8 mL SQ	1.9 mL SQ	1.9 mL SQ	1.9 mL SQ	1.9 mL SQ

• Single-use vial stored in fridge at 2° C - 8° C, should be at room temperature 15° C - 30° C before administration; BUD of 24 hours in room temperature

Boxed Warning Management of CRS and ICANS

- Consider management per current practice guidelines, for a full list visit elrexfiorems.com/#Main under "Adverse Reaction Management Guide"
 - Patients should be hospitalized for 48 hours after the first step-up dose and for 24 hours after the second, due to CRS risk
 - CRS symptoms can range from fever, hypoxia, and chills to hypotension, tachycardia, headaches, and hepatotoxicity
 - Neurologic Toxicity Including ICANS common symptoms: headaches, encephalopathy, motor dysfunction, and sensory neuropathy
 - At the first sign of CRS or neurologic toxicity withhold elranatamab until symptoms resolve, or permanently discontinue it depending on the severity
 - Tocilizumab should be considered for a temperature of ≥100.4 °F/38°C alone if not related to any other cause (grade 1) and is recommended for grade ≥2 CRS



- Dexamethasone administration is recommended for grade ≥2 ICANS
- Monitor vital signs every 4 hours, daily organ review, physical exam, blood counts, metabolic and coagulation profiles, and measure CRP and ferritin levels
- Other common adverse events: fatigue, injection-site reaction, pyrexia, GI disorders, skin and respiratory issues

Patient Centered Activities

- Material may be provided to the patients to help identify serious and non-serious AEs
 - Patient booklet for education and assessment monitoring of CRS/ICANS
 - o Pulse oximeter, thermometer, and automatic blood pressure monitor
- Teach patients/caregivers to identify and manage CRS and ICANS symptoms
 - Caregivers are expected to inform provider team if the patient experiences any concerning symptoms and to bring their treatment card/booklet to all clinic visits, as required by REMS
 - Look for common CRS/ICANS symptoms ranging from fever, hypoxia, and chills to hypotension, tachycardia, headaches, hepatotoxicity, encephalopathy, motor dysfunction, and sensory neuropathy
- Seek medical help if you experience any unusual symptoms for a full list of symptoms
- Advise against driving or operating machinery for 48 hours post each step-up dose and if neurological symptoms arise
- Post step-up administration guidelines
 - Outpatient treatment should be within 60 minutes of a hospital
 - Utilize triage which involves using a standard assessment in the electronic health record (EHR) to evaluate and record signs of CRS and ICANS
 - Comprehensive patient hand-off should take place for patients returning back to referral sites
- Access to one-on-one support from a Pfizer Patient Access Navigator is available through Pfizer Oncology Together™

References:

- Elrexfio (elranatamab-bcmm) Prescribing Information.
- Lesokhin AM, Tomasson MH, Bertrand Arnulf, et al. Elranatamab in relapsed or refractory multiple myeloma: phase 2 MagnetisMM-3 trial results. Nature Medicine. Published online August 15, 2023. doi:https://doi.org/10.1038/s41591-023-02528-9.
- Prince HM, Bahlis NJ, Rodriguez-Otero P, et al. MagnetisMM-3: Long-term update and efficacy and safety of less frequent dosing of elranatamab in patients with relapsed or refractory multiple myeloma. Poster presented at ASH; December 2024; San Diego, CA.
- Martin TG, Mateos MV, Nooka A, et al. Detailed overview of incidence and management of cytokine release syndrome observed with teclistamab in the MajesTEC1 study of patients with relapsed/refractory multiple myeloma. Cancer. 2023;129(13):2035-2046. doi:10.1002/cncr.34756.
- U.S. Food and Drug Administration. What's REMS. Accessed February 5, 2024. Available from: https://www.fda.gov/drugs/risk-evaluation-and-mitigationstrategies-rems/whats-remsTH.

