

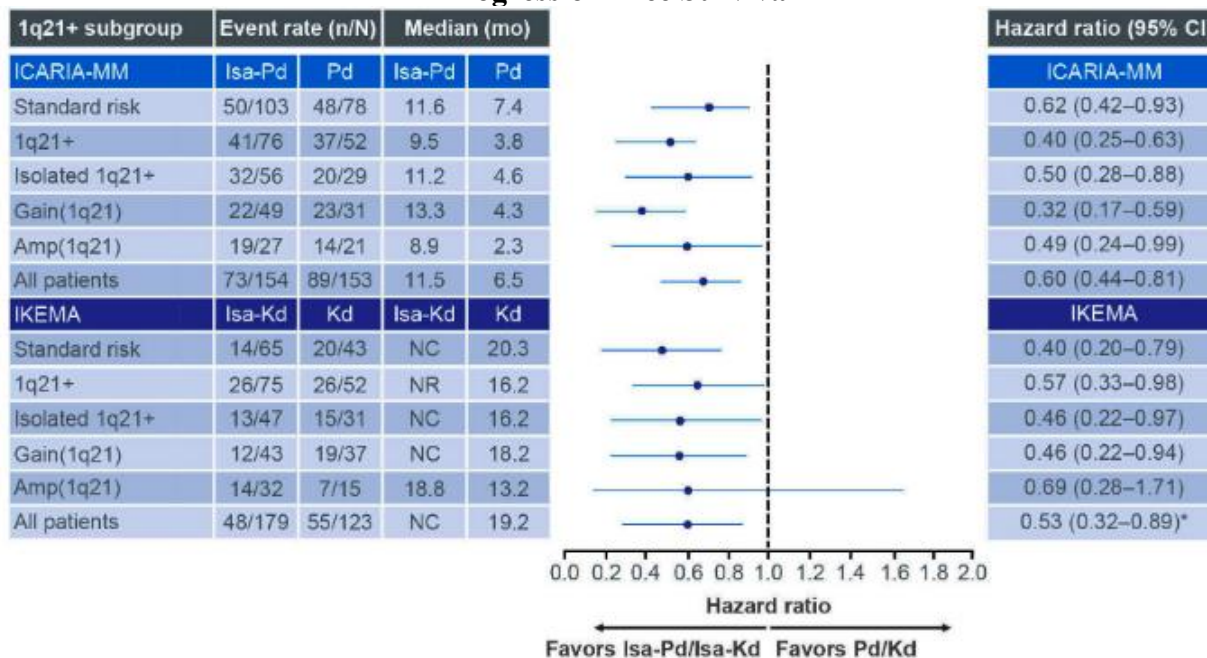


Positive Quality Intervention: Isatuximab-irfc (Sarclisa®) Regimens in 1q21 gain/amplification Relapsed/Refractory Multiple Myeloma

Description: The purpose of this PQI is to discuss the potential activity isatuximab-irfc (Sarclisa®)-based regimens have on patients with 1q21 gain or amplification (1q21+) relapsed, refractory multiple myeloma (MM) with or without other high-risk features.

Background: Gain/amplification of 1q21 (1q21+) is a cytogenetic abnormality that may occur in both newly diagnosed and relapsed/refractory MM. It may occur alone or in combination with other cytogenetic abnormalities and is used for prognostic counseling, selection, and sequencing of therapy.^{1,2} 1q21+ is detected in approximately 40% or more of newly diagnosed MM patients and 50-80% of those with relapsed/refractory MM. This is associated with worse outcomes, especially when it co-exists with other high-risk chromosomal abnormalities.³ 1q21 gain is defined as 3 copies of 1q21 and amplification is defined as ≥ 4 copies and is detected by FISH.¹ For relapsed/refractory multiple myeloma after 1-3 prior therapies in patients who are refractory to either bortezomib or lenalidomide, isatuximab in combination with carfilzomib and dexamethasone (IsaKd) is an NCCN category 1 preferred treatment option based on the Phase 3 results in the IKEMA study.^{3,4} Further, the final IKEMA subgroup analysis of high-risk patients with 1q21+ R/R MM exhibit a median progression free survival (mPFS) benefit: IsaKd mPFS was not reached versus 16.2 months (HR=0.57 (0.33-0.98) in patients who were treated with Kd alone.¹ For patients who have received 2 prior therapies, including lenalidomide and a PI, isatuximab in combination with pomalidomide and dexamethasone is an NCCN Category 1 preferred treatment option based on results from the Phase 3 ICARIA-MM trial.¹ Further subgroup analysis of high-risk patients with 1q21+ exhibits a median progression free survival (9.5 months versus 3.8 months) and median overall survival benefit (21.3 months versus 13.9 months).³ Refer to the chart below for a forest plot from both trials for all subgroups related to 1q21+.¹ 1q21+ is an emerging space and data continues to evolve.

Progression Free Survival



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PQI Process: Consider isatuximab-based regimens for patients with Multiple Myeloma if

- Adult patients with relapsed or refractory multiple myeloma
- Received 1-3 prior lines of therapy (*Some patients may be eligible for 1st line therapy with isatuximab-based quadruplet therapy – clinical trials ongoing*)
- Gain or amplification of 1q21 with or without other high-risk cytogenetic abnormalities
- NOT refractory to previous treatment with an anti-CD38 monoclonal antibody
- Consider patient functional status, disease risk, comorbid conditions, reimbursement considerations, and patient preferences when evaluating treatment selections
- Prophylactic therapy recommendations for all patients receiving isatuximab
 - Assess and prescribe prophylactic treatment for bacterial, viral, and fungal infections
 - Prescribe prophylactic antiemetic therapy for the prevention of acute and delayed nausea and vomiting based on the emetogenic risk of the chemotherapy regimen - Refer to [Chemotherapy-Induced Nausea and Vomiting PQI](#)
 - Assess risk, monitor, and administer prophylaxis as indicated for deep venous thrombosis or pulmonary embolism as these may occur with therapy
- Dosing Guideline Summary – See [Isatuximab-irfc \(Sarclisa[®]\) In Patients with Relapsed/Refractory Multiple Myeloma PQI](#)

Patient-Centered Activities:

- Discuss risk of infusion reactions and diarrhea management:
 - See [Isatuximab-irfc \(Sarclisa[®]\) In Patients with Relapsed/Refractory Multiple Myeloma PQI](#), [Oncolytic Induced Diarrhea PQI](#), and [OCE Supplemental Sheet](#)
 - Advise patients to immediately report symptoms of infusion-related reactions and monitor vital signs frequently during infusion
- Review antiemetic therapy, both scheduled and as needed for breakthrough nausea and vomiting based on the chemotherapy regimen administered – See [OCE Supplemental Sheet for Nausea & Vomiting](#)
- Review key features of 1q21+ and isatuximab-irfc (Sarclisa[®]) based combination activity in this setting
- Ensure female patients of childbearing age avoid getting pregnant while on therapy and for at least 5 months after the last dose of isatuximab-irfc (Sarclisa[®])
- Monitoring
 - Complete blood count with differential (CBC w/diff) and Complete Metabolic Panel (CMP)
 - Blood pressure (especially when in combination with carfilzomib)
 - Symptoms of low-grade fever, chills, sweating, sore throat, cough/shortness of breath
 - Development of secondary malignancies (skin cancers and other solid tumors)
- Patient Assistance: [NCODA Financial Assistance Tool](#) and [Patient Treatment Calendar](#)

References:

1. NCCN Guidelines: Multiple Myeloma. https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf.
2. Burroughs Garcia J, Eufemiese RA, Storti P, et al. Role of 1q21 in Multiple Myeloma: From Pathogenesis to Possible Therapeutic Targets. *Cells*. 2021;10(6):1360. doi:<https://doi.org/10.3390/cells10061360>
3. Martin T, Richardson PG, Facon T, et al. Primary outcomes by 1q21+ status for isatuximab-treated patients with relapsed/refractory multiple myeloma: subgroup analyses from ICARIA-MM and IKEMA. *Haematologica*. 2022;107(10):2485-2491. doi:<https://doi.org/10.3324/haematol.2022.280660>
4. [Sarclisa[®]\(isatuximab-irfc\) Package Insert](#).