BACKGROUND

The Enhancing Oncology Model (EOM) is a 5-year voluntary model aimed at driving transformation and improving care coordination in oncology care through payment incentives and required participant redesign activities¹

EOM focuses on beneficiaries for seven cancer types:²

$\langle () \rangle$	Breast cancer	Lymphoma	
\bigcirc	Chronic leukemia	کی Multiple myeloma	
F	Small intestine/colorectal cancer	\backsim Prostate cancer	
AA	Lung cancer		

Anemia is a common hematological manifestation of cancer. Iron deficiency anemia (IDA) is often a main contributor or can be caused by a variety of factors, such as:

Chemotherapy	Blood loss after surgery	Malnutrition	Malabsorption

Intravenous iron (IVI) is used to treat IDA when oral iron is not effective or not tolerated

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) recommend IVI ranging from 1 to 10 infusions per treatment course, totaling about 1,000 mg for most IVI products³

Some policies restrict the use of newer generation products and justify this decision based on IVI drug cost alone, ignoring other aspects that can contribute toward overall patient cost

OBJECTIVE

To evaluate the prevalence of incomplete treatment with IVI products in patients with IDA and EOM tumor types

ABBREVIATIONS

- **EOM:** Enhancing Oncology Model
- **FDA:** US Food and Drug Administration
- **IDA:** Iron deficiency anemia
- **IV:** intravenous
- **IVI:** intravenous iron
- NCCN: National Comprehensive Cancer Network **US:** United States

REFERENCES

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- 2.Centers for Medicare & Medicaid Services. Update: Enhancing Oncology Model Factsheet. Published June 27, 2023. Accessed March 27, 2024, https:// www.cms.gov/newsroom/fact-sheets/update-enhancing-oncologymodel-factsheet#:~:text=EOM%20focuses%20on%20beneficiaries%20
- receiving, multiple%20myeloma%2C%20and%20prostate%20cancer 3. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines[®]) for Hematopoietic Growth Factors V.3.2024. © National Comprehensive Cancer Network, Inc. 2024. All rights reserved. Accessed April 26, 2024. To view the most recent and complete version of the guideline, go online to NCCN.org
- 4. LaVallee C, Bansal I, Kamdar S, et al. Relationship between initial parenteral iron therapy dosing and treatment effectiveness: a real-world retrospective analysis. J Blood Med. 2022 Mar 8:13:133-142

SPONSORSHIP	N
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NOTE

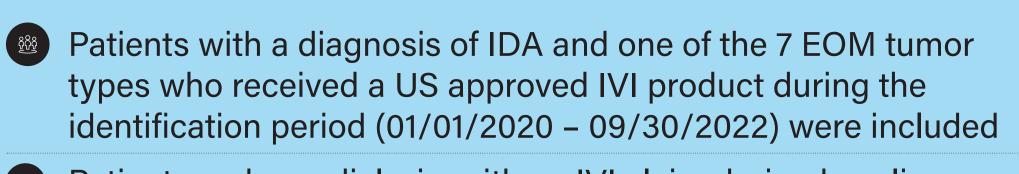
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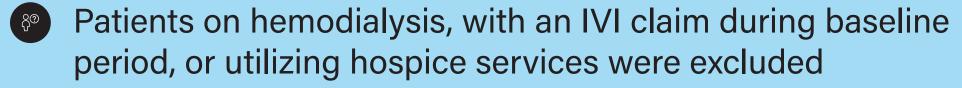
ENHANCING ONCOLOGY MODEL: DISCORDANCE AMONG PATIENTS USING INTRAVENOUS IRON IN THE US

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METHODS

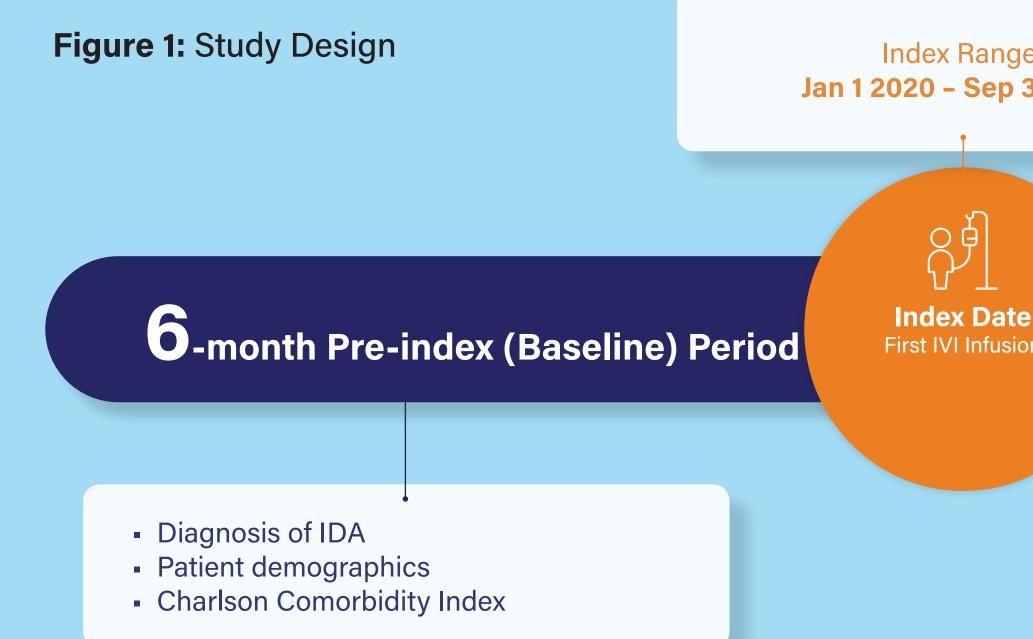






Continuous enrollment (both medical and pharmacy coverage) for the baseline and follow-up periods was required





RESULTS

n=6,450 patients were included in this study

The average age was Average Charlson Comorbidity index was **73.3** years old 6.0

Figure 2: Patient Demographics



Figure 3: Discordance Rate (overall and by IVI product)



Overall discordance

Date of first IVI infusion was the index date

Discordance, a surrogate marker for nonadherence, was defined as having received less than 1,000 mg of iron (commonly targeted clinical dose for a course of treatment for IDA) over 6 weeks

IVI products evaluated include: iron dextran, iron sucrose, sodium ferric glucose, ferric carboxymaltose, ferric derisomaltose, ferumoxytol

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n	6-week Post-index Period	
	Discordance rate (received less than 1,000 mg IV iron within 6 weeks from index date)	

			90.8% n=17
		71.0% n=959)
	38.9% n=755		
24.6%	n=2,553		
17.1% n=1,941	1		
0.0% n=69			
32	2.4% n=6,450		

weeks

It is possible that some products were not administered according to FDA-approved labeling, rather this analysis represents real-world use of IVI products

This analysis includes only data from Medicare insured patients from Komodo Healthcare Map, which may not be generalizable to a wider patient population

EOM aims to generate cost savings and improve quality of care for cancer patients undergoing chemotherapy based on 6-month episodes of care across 7 specific tumor types

IVI product selection should ensure that discordance, patient preference, health-related social needs, and outcomes are not ignored in EOM practices



LIMITATIONS

A 6-week timeframe was used for the definition of discordance, which covers the course of treatment per label for all products except for sodium ferric gluconate, which may take up to 8

Most patients require 1,000 mg of iron for repletion⁴, however, recommended doses for individual patient need varies

This analysis excluded patients undergoing hemodialysis or hospice care

CONCLUSIONS



Greater discordance rates to IVI occurred in treatment courses with multiple infusions



Approximately 17-25% of patients on IVI treatments that require only 2 infusions (ferumoxytol and ferric carboxymaltose) were discordant



If oncology practices are being held accountable for quality of care, then restricting IVI selection solely on drug cost is counterproductive to supporting EOM



Potential undertreatment of IDA (<1,000 mg received) could be mitigated with unrestricted access to a single-dose IVI option