Determining when intravenous iron treatment is appropriate in hospitalized patients Matt Bayes PharmD Candidate, Carrie Vogler PharmD, BCPS

Background

- Iron deficiency anemia is the most common form of anemia and effects millions of Americans every year
- Iron deficiency is a common comorbidity in pregnancy, chronic kidney disease (CKD), heart failure and many other conditions
- Iron deficiency can be diagnosed if ferritin < 30ng/mL, ferritin < 100ng/mL and CKD, or ferritin 100 – 300ng/mL and transferrin saturation < 20%
- Oral iron products are used to restore iron levels in patients with iron deficiency. In some situations, parental iron products are used instead.
- The specific criteria required to switch from oral to intravenous iron varies

Objective

This study aims to determine what factors play into the decision-making process of healthcare professionals when starting a patient on intravenous iron products.

Methods

Study design:

- Single-center retrospective chart review
- IRB approval:
- Springfield Committee for Research Involving Human Subjects Institutional Review Board
- Inclusion criteria:
- Patients treated with at least 1 dose of intravenous iron sucrose
- Age 18-89 years old and hospitalized for at least 24 hours between May 2018 to May 2022
- Exclusion criteria:
- Patients who received blood transfusion before iron panel results, diagnosed with end stage renal disease and on dialysis, active cancer being treated with chemotherapy
- Data analysis:
- Data on these patients' treatments, iron panels, and provider notes will be analyzed and compared

