

# Application of a Patented Alternate Dose Regimen Identification System in Optimizing the Emicizumab-kxwh Regimen

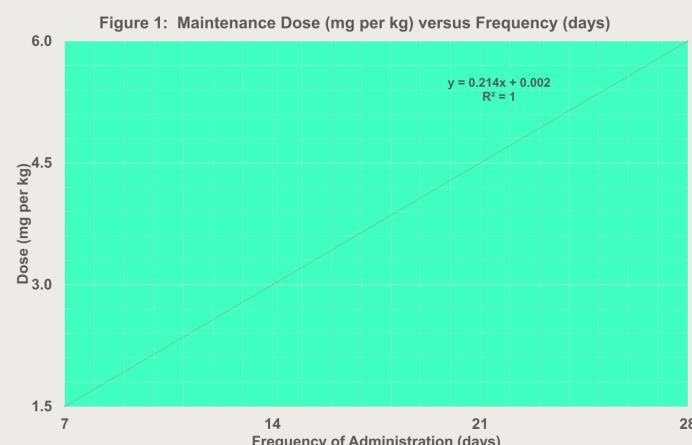


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## ACCREDO SPECIALTY PHARMACY

#### **METHODS:**

The system is designed with the understanding that the pharmacokinetics of emicizumab-kxwh following a loading regimen – are linear. Plotting the 3 approved maintenance regimens as dose (mg per kg) vs. frequency (days) reveals that for every 1 day the interval is adjusted, the dose should change by plus or minus 0.214 mg per kg (y=0.214x; R2=1) to maintain expected plasma steady state and associated efficacy (Figure 1).

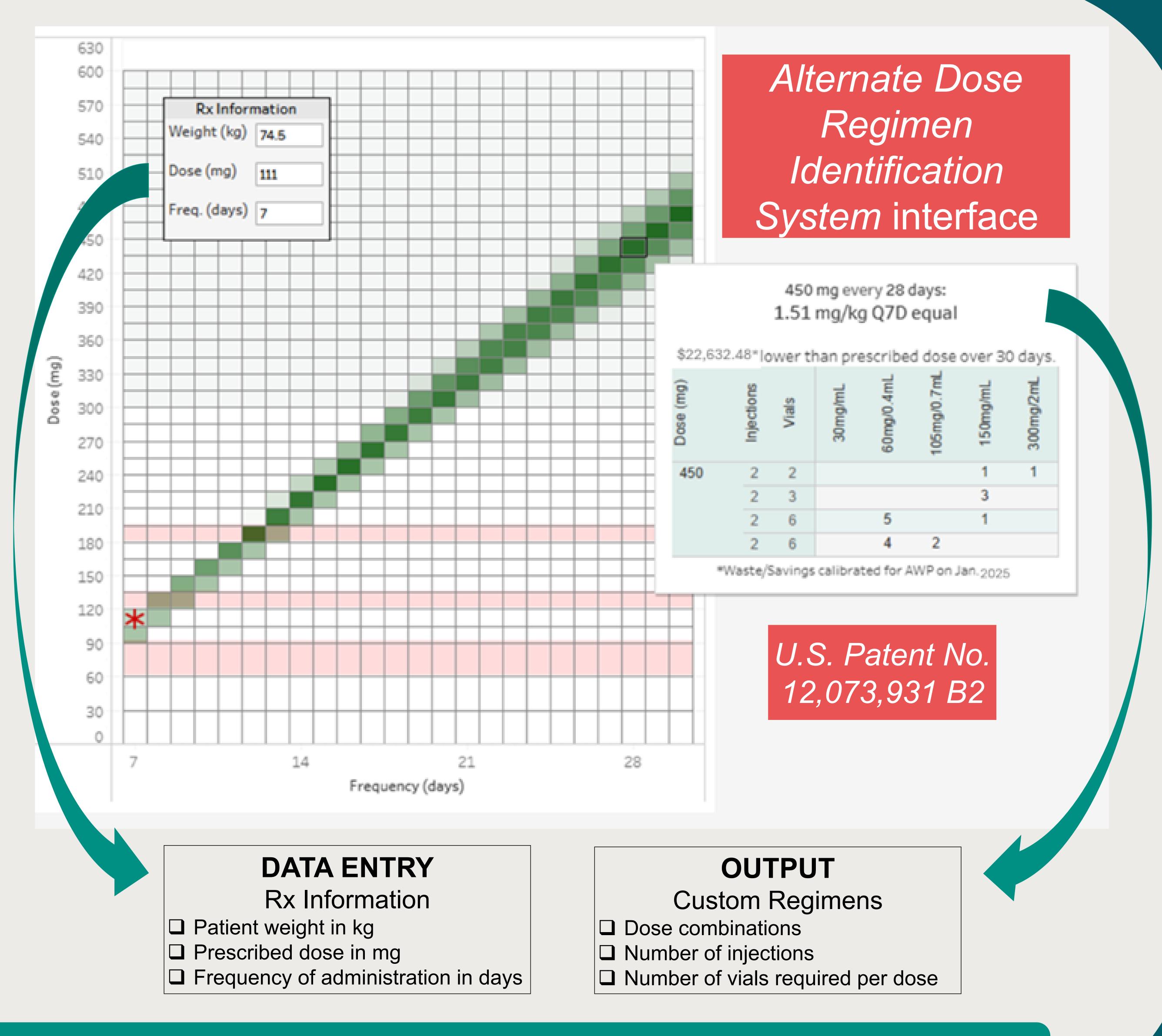


### **FEATURES:**

- Red star: represents the originally prescribed regimen (mg per kg dose and frequency)
- Dark green box: regimen falls within 1/100<sup>th</sup> of the patient specific pharmacokinetic profile
- Light green box: regimen falls within 1/10<sup>th</sup> of the patient specific pharmacokinetic profile
- Pink row: represents use of a vial with a different concentration, necessitating a separate injection

#### **SAVINGS:**

- Waste is defined as drug that must be discarded with each dose (owing to single-use vial status)
- Based on an AWP of \$145.08 per mg
- Per dispense savings: waste avoided per dose X doses per dispense
- Annual savings = dispense savings X 13 fills (28) days supply)





Conclusions: Application of the patented Alternate Dose Regimen Identification System by the specialist pharmacist or prescriber can simplify the emicizumab-kxwh regimen, decrease injection burden and reduce or eliminate unnecessary waste.

#### **REFERENCES and DISCLOSURES**

D'Albini L, Dorholt M, Gallucci L. Optimizing maintenance dosing of emicizumab-kxwh as prophylaxis in hemophilia A: Dosing to product labeling while minimizing drug waste. J Manag Care Spec Pharm. 2023 Jan;29(1):47-57. doi: 10.18553/jmcp.2023.29.1.47. PMID: 36580124; PMCID: PMC10387933.

D'Albini LA, Wright WJ, Phadke S, et al. (2024). Alternative Dose Regimen Identification System. (US Patent No. 12,073,931 B2).

\*Salary, benefits, stock associated with employment at The Cigna Group, the parent company of Accredo